ANNEXURE-I

STATUTES GOVERNING ADMISSION TO MASTER DEGREE (OTHER THAN M.PHIL & PH.D. COURSES), BACHELOR DEGREE (LL.B (3 YEARS), B.LIB.I.SC. & B.P.ED), DIPLOMA PROGRAMMES OF STUDY IN THE TEACHING DEPARTMENTS OF THE UNIVERSITY OF JAMMU, JAMMU/ CAMPUSES/ AFFILIATED COLLEGES.

1. ELIGIBILITY:
A candidate to be eligible for admission to the Master Degree (other than M.Phil and Ph.D), Bachelor Degree (LL.B (3 Years), B.Lib.I.Sc. & B.P.Ed) and Diploma programmes in the University, must have passed/appeared in the final year of the qualifying Bachelor's degree examination of 10+2+3 pattern (Honours or General) in Arts, Science, Commerce, or Business Administration or an examination qualifying for a professional degree of not less than 3 years duration or any other examination recognised as equivalent thereof, from a recognised university/institution with at least 40% of the aggregate marks or as specified (36% for the Scheduled Caste/ Tribe candidates).

Candidates who have passed degree course of two years duration under 10+2+2 or 10+1+3 pattern and thereafter have passed bridge course of one year duration comprising Part-III of B.A./B.Sc./B.Com. three years (General) course of the University of Jammu or any other recognised University shall also be eligible subject to the aggregate qualifying marks as indicated above. A candidate who has passed M.A/M.Sc./M.Com. examination from the University after having passed B.A./B.Sc./B.Com. examination under the old pattern of 10+2+2 or 10+1+3 shall also be eligible for admission under second preference category to :

(a) a course where the minimum eligibility condition is pass in Three Year Degree (General) Course after 12 years of schooling.
(b) a Master Degree Course in an allied subject, if otherwise permissible under Statutes/Regulations of the University.

Notwithstanding anything contained in Statute 1, a candidate appearing in the final year of the qualifying examinations immediately preceding the Academic Session & expecting to fulfill the Statutory requirement of at least 40% of the aggregate marks in the Bachelor’s Degree (36% in the case of candidates belonging to SC/ST) can also appear in the written objective type Jammu University Entrance Test (JUET).

2. RECEIPT OF APPLICATION FORM:
A) Applications for admission to various programmes of study (except M.Phil. and Ph.D.) in the teaching departments of the University/ Campuses/Affiliated Colleges shall be received within fourteen (14) days from the date specified in the notification of admission by the University. Application forms prescribed by the University, COMPLETE IN ALL RESPECTS must be deposited at the counter designated by the University ON OR BEFORE THE LAST DATE prescribed by the University for the purpose as per the notification.

The Dean Academic Affairs may authorise late entertainment of an application form for admission to a programme of study up to a maximum of three (3) days after the last date prescribed by the University for receipt of application forms, on payment of requisite late fee*. Such applications shall be treated at par with those received in time for purposes of admission.

* See Appendix-II

NOTE: Candidates need not enclose any document/certificate along with the application form at the time of applying for Jammu University Entrance Test. Certificates/documents shall be submitted only at the time of applying to the concerned Department of the University for which a separate notification shall be issued after the declaration of Jammu University Entrance Test result.

Admission to the following programmes shall be made through a separate Entrance Test to be notified by each concerned Department separately after approval from the Dean Academic Affairs.

i) MBA
ii) MBA (H&T)
iii) MBA (IB)
iv) M.Sc Biotechnology (Except NRI/Self Sponsored seats)

3. GENERAL :
After the declaration of the result of Jammu University Entrance Test (JUET)-, admission to a programme of study in a teaching Department of the University/ Campuses/ Affiliated Colleges shall be made by the Admission Committee of the concerned PG Department of the University with the approval of the Dean of concerned Faculty and the Dean Academic Affairs. The Admission Committees shall consist of members as given in Annexure I (A)

NOTE: For admission to Campuses/ Affiliated Colleges candidate shall apply to the concerned PG Department of the University thus the concerned University Department shall act as Nodal Department for admission to Campuses/affiliated Colleges.
<table>
<thead>
<tr>
<th>S.No</th>
<th>Programme/Subject</th>
<th>Institution</th>
<th>Nodal Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Chemistry</td>
<td>1. PG Dept. of Chemistry, Univ. of Jammu, Jammu</td>
<td>PG Department of Chemistry, University of Jammu, Jammu.</td>
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<td></td>
<td></td>
<td>2. Govt. Degree College, Rajouri</td>
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<td>3. Govt. Degree College, Bhaderwah</td>
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<tr>
<td>2.</td>
<td>Computer Science &amp; IT (MCA)</td>
<td>1. PG Dept. of Computer Sciences and IT, Univ. of Jammu, Jammu</td>
<td>PG Department of Computer Sciences &amp; IT, University of Jammu, Jammu.</td>
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<td></td>
<td></td>
<td>2. Bhaderwah Campus of University of Jammu</td>
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<td>3. Ramnagar Campus of University of Jammu</td>
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<td>4. Govt. Degree College, Rajouri</td>
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<td>5. MBS College, Jammu*</td>
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<td>6. MIET, Jammu*</td>
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<td>7. BIMTAS, Jammu*</td>
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<tr>
<td>3.</td>
<td>M.Sc IT</td>
<td>1. Kishtwar Campus of Univ. of Jammu</td>
<td>PG Department of Computer Sciences &amp; IT, University of Jammu, Jammu.</td>
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<tr>
<td>4.</td>
<td>PGDCA</td>
<td>1. National Institute of Electronics &amp; Information Technology (NIEAIT) Formaly DOEACC*</td>
<td>PG Department of Computer Sciences &amp; IT, University of Jammu, Jammu.</td>
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<td></td>
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<td>2. MIER, Jammu*</td>
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<td>3. Kaira College of Education &amp; Technology, Udhampur*</td>
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<td>4. Dogra Degree College, Jammu*</td>
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<td></td>
<td>2. Udhampur Campus of University of Jammu</td>
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<td>3. Govt. SPMR College, Jammu</td>
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<td>6.</td>
<td>B.Com (Honours)</td>
<td>1. Udhampur Campus, Univ. of Jammu</td>
<td>PG Department of Commerce, University of Jammu, Jammu.</td>
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<td></td>
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<td>2. Govt. SPMR College of Commerce</td>
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<td>2. Udhampur Campus of University of Jammu</td>
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<td>2. Bhaderwah Campus of University of Jammu</td>
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<td>3. GGM Science College, Jammu</td>
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<td>4. Govt. Degree College (Boys), Udhampur</td>
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<td>5. Bhargava Degree College, Samba*</td>
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<td>10.</td>
<td>Geography</td>
<td>1. PG Deptt. of Geography, Univ. of Jammu</td>
<td>PG Department of Geography, University of Jammu, Jammu.</td>
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<td></td>
<td>2. Govt. Degree College (Boys), Kathua</td>
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<td>11.</td>
<td>Geology</td>
<td>1. PG Deptt. of Geology, Univ. of Jammu</td>
<td>PG Department of Geology, University of Jammu, Jammu.</td>
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<tr>
<td></td>
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<td>2. GGM Science College, Jammu</td>
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<td>2. Govt. Degree College (Boys), Udhampur</td>
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<td>2. Govt. Women College Parade Jammu (Home Science-CRME)</td>
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<td>2. Govt. College of Education, Jammu</td>
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<td>3. KCS College of Education (women), Jammu*</td>
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<td>4. Model Institute of Education &amp; Research (MIER), Jammu *</td>
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<tr>
<td>16.  Mathematics</td>
<td>1. PG Deptt. of Mathematics, Univ. of Jammu</td>
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<td>2. Govt. MAM College, Jammu</td>
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<td></td>
<td>PG Department of Mathematics, University of Jammu, Jammu.</td>
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<td>2. Govt. Women College, Gandhi Nagar, Jammu</td>
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<td></td>
<td>Deptt. of Physical College, Univ. of Jammu along with the representatives of the concerned Colleges</td>
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<tr>
<td>18.  Sociology</td>
<td>1. PG Department of Sociology, University of Jammu</td>
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<td></td>
<td>2. Ramnagar Campus of University of Jammu</td>
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<td></td>
<td>3. Reasi Campus of University of Jammu</td>
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<td></td>
<td>PG Department of Sociology, University of Jammu, Jammu.</td>
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<tr>
<td>19.  Urdu</td>
<td>1. PG Department of Urdu, University of Jammu</td>
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<td></td>
<td>2. Govt. Degree College Bhaderwah</td>
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<td></td>
<td>PG Department of Urdu, University of Jammu, Jammu.</td>
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<td>20.  Kashmiri</td>
<td>1. Kishtwar Campus, Univ. of Jammu</td>
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<td></td>
<td>PG Department of Urdu, University of Jammu, Jammu.</td>
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<tr>
<td>21.  LL.B Professional (3 Years)</td>
<td>1. Department of Law University of Jammu</td>
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<td></td>
<td>2. Dogra Law College, Jammu*</td>
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<td></td>
<td>3. KC Law College, Jammu*</td>
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<td>4. Jammu Law College, Jammu*</td>
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<td></td>
<td>Department of Law, University of Jammu, Jammu.</td>
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<td>22.  B.A LL.B (5 Year)</td>
<td>5. The Law School, University of Jammu</td>
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<td>23.  Dogra Law College, Jammu*</td>
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<td>24.  KC Law College, Jammu*</td>
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<td>25.  CMH Law College, Jammu*</td>
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<td>26.  Jammu Law College, Jammu*</td>
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<td>27.  Ashoka Law College Kathua*</td>
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<tr>
<td>28.  BBA (HM)</td>
<td>1. School of Hospitality &amp; Tourism Management</td>
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<td></td>
<td>School of Hospitality &amp; Tourism Management, Univ. of Jammu</td>
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<tr>
<td>29.  PGDBM</td>
<td>1. The Business School</td>
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<td></td>
<td>2. BIMTAS, Jammu*</td>
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<td></td>
<td>The Business School</td>
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* Admission in the Private Affiliated Colleges is subject to affiliation by the University of Jammu, Jammu.

NOTE: In respect of admission to the CAMPUSES / AFFILIATED COLLEGES, The Nodal Departments for the admission shall charge the university fee and remaining fee (if any) shall be charged directly by the respective institutes/colleges.

4. SEATS: Number and Distribution

The number of seats in a programme of study in the Teaching Departments of the University shall be determined before the commencement of the academic session by the Dean of the Faculty and Head of the Department concerned in consultation with members of the teaching staff of the Department and with the approval of the Dean Academic Affairs and wherever necessary, of the Vice-Chancellor/Syndicate/University Council. The number of seats so determined shall be communicated by the Head of the Department concerned to the Dean Academic Affairs before commencement of admission process.

5. OPEN MERIT SEATS:

Sixty-Seven percent (67%) of total number of seats available in a course of study as determined according to Statute 4, shall be filled up on the basis of open merit in accordance with the criteria given in Statute 13.

6. RESERVED CATEGORY SEATS:

(A) After selection of candidates is made on the basis of open merit, the remaining thirty-three percent (33%) seats, notwithstanding any thing contrary contained in any law, S.R.O, or regulation in force in the State, seats under Achievement Categories shall be filled up in accordance with the criteria given at Statute 12.

(B) Break-up of the Reserved Categories :

<table>
<thead>
<tr>
<th>Category (i)</th>
<th>Scheduled Caste</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>8%</td>
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<table>
<thead>
<tr>
<th>Category (ii)</th>
<th>a) Sportsmen</th>
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<tbody>
<tr>
<td></td>
<td>4%</td>
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<table>
<thead>
<tr>
<th>b) Persons who have excelled in Cultural &amp; Literary Activities</th>
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<tr>
<td>2%</td>
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<table>
<thead>
<tr>
<th>Category (iii)</th>
<th>a) Persons who have participated with distinction in NCC activities</th>
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<tbody>
<tr>
<td></td>
<td>2%</td>
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</table>

<table>
<thead>
<tr>
<th>b) Persons who have participated with distinction in NSS/Bharat Scouts &amp; Guides Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2%</td>
</tr>
</tbody>
</table>
Category (iv) Defence Service Personnel including Ex-Servicemen and their children who are permanent residents of the State and have had a satisfactory service record. 2%

Category (v) Candidates belonging to the Areas adjoining the Actual Line of Control. 2%

Category (vi) Candidates belonging to Scheduled Tribes (Gujjar, Bakerwals, Gaddies, Baltis) 5%

Category (vii) Candidates belonging to ST (Resident of the Districts of Leh & Kargil) 2%

Category (viii) Candidates belonging to Backward area other than that of districts Leh & Kargil 2%

Category (ix) Candidates belonging to Weak and Under-privileged Classes as notified in S.R.O. by the State from time to time. 2%

* This will not be applicable in case of admission to M.Ed/M.P.Ed/M.Lib.I.Sc / B.Com (Honour)/B.A. English (Honour) / BBA (HM) and B.A. LL.B (5 Year) Course (For details refer to Statute 10 (A) (i) )

EXPLANATION:

i) In case only one seat is available under category (ii) or category (iii) the same shall be filled on the basis of comparative merit of all the candidates under category (ii) (a) and (b), or category (iii) (a) and (b) put together, as the case may be.

ii) For determining the number of seats under any reserved category mentioned at Statute 6 (A), fraction of less than one-half shall be ignored and fraction of one half and more shall be treated as one. The benefit of fraction shall be given to each category separately even if it means an overall marginal increase in seats in any course of study.

iii) In the event of number of seats available in a programme of study in a Department being such that representation to all reserved categories is not possible, the department will still provide at least one seat to each reserved category even if it means marginal increase in number of seats.

iv) In case any of the seats remains vacant in a reserved category for want of eligible candidates, the same will be offered to the candidates of non-reserved i.e. open merit group.

(C) Unless covered under Statute Explanation (i), only such candidates shall be eligible for consideration under reserved categories (i) to (ix) specified at Statute 6 (B) as have not already availed of this concession for admission to any programme of study in a teaching department of the University in any session.

(D) Selection of candidates against reserved seats specified at Statute 6 (B) shall be made on the basis of comparative merit in the respective category which will be determined in accordance with the criteria prescribed for categories (i), (iv), (v), (vi), (vii), (viii) & (ix) and for categories (ii) and (iii) as at Statute 12.

(E) To be a beneficiary of reservation, the candidate must be a permanent resident of J&K State, except when applying under categories (ii) i.e. Sports/Cultural & Literary activities and (iii) i.e. N.C.C./N.S.S/ Bharat Scouts & Guides activities, for which he must have passed the qualifying examination from the University of Jammu.

(F) Reservation and fee in case of Private Affiliated Colleges and Self Financing Courses shall be governed by their respective regulations issued by the University/State Govt. in this regard.

7. LEFT OVER SEATS:
Under no circumstances, the seats lying vacant in the Departments on the last prescribed date for completion of admission will be filled up by the Head of the Department/Admission Committee unless the candidate falls immediately next in merit to the last admitted candidate. If some seats still remain vacant, these will be referred to the Appellate Committee for consideration.

8. APPELLATE COMMITTEE:
In case a candidate has any specific grievance regarding deviation from Statutes governing admission, he may appeal to the Appellate Committee through Head of the concerned Department, on the prescribed form along with the requisite fee* by the date notified for the purpose. Such an appeal along with the observation of the Head of the Department, shall be considered by the Appellate Committee whose decision in the matter shall be final and binding. It shall be obligatory for the appellant to appear in person before the Committee if called upon to do so. The Appellate Committee shall consist of members as given in Annexure I (B).

* See Appendix-II

9. (A) Should there be any need to augment the resources of the university for maintaining, developing and improving the standards of instruction in any programme of study or for starting a new programme of study in a teaching department of the University, the Vice Chancellor on the recommendation of the admission committee of the department concerned and the Dean Academic Affairs, may sanction self-supporting seats for such programme of study additionally to meet societal obligations. The number of such seats may not ordinarily exceed 15% of the seats determined for the programmes as per Statute 4. These seats shall be supernumerary and thus, shall not count towards determining the quantum of reservation specified at Statute 6 for the various categories. The admission committee shall make admission on the basis of merit determined as per Statute, subject to fulfillment of eligibility conditions for such supernumerary seats. Permanent residents of territorial jurisdiction of the
University/those having passed the qualifying examination from the University of Jammu, shall have priority in admission over the rest against these seats. The admission shall be granted after remittance of amount of fee** prescribed from time to time alongwith other fees/charges for the course by the candidates to the University. The payment made against the self-supporting seat is not refundable.

** See Appendix- III

(B) In addition to the Self Financing seats, the Department of Environmental Sciences has eight (8) seats in M.Sc. course exclusively meant for the candidates who are sponsored by Govt. Departments/ Autonomous Bodies/Industry/recognised NGO's***. Such candidates besides fulfilling all the conditions of eligibility prescribed for the course, must have at least one year of permanent service in the sponsoring organisation, except in case of NGO's wherein they must have rendered at least one year of continuous voluntary service after having passed the qualifying degree examination. Admission shall be granted in order of merit, on the production of relevant documents/certificates from the sponsor after remittance of sponsorship amount**** prescribed from time to time along with other fees/charges for the programme by the candidates to the university. The vacant sponsored seats, if any, may be converted to Self Financing seats subject to the fulfilment of conditions mentioned in Statute.

*** This is in line with UGC Norms

**** See Appendix- III

(C) Subject to fulfillment of the eligibility criteria and other conditions prescribed for a programme of study by the candidates, seven (7) and four (4) seats respectively in B.Lib.Sc. and M.Lib.Sc. programme, will be filled up by nominees/deputies of the State Govt. and the University of Jammu who are permanent employees of these organisations. Similarly, in LL.B. (Professional) and Diploma in Business Management, two (2) seats each, will be filled up by permanent employees of the University.

EXPLANATION

Permanent employees of the University to be deputed for the programmes (referred at (C) above), shall be nominated by the Vice Chancellor for which he may seek advice of a Committee comprising Registrar and a few senior faculty members of the University.

10. (A) ASSESSMENT IN ACHIEVEMENT CATEGORIES:

Credit for achievement in Sports/Cultural and Literary, and N.C.C./N.S.S./ Bharat Scouts & Guides activities, i.e. reserved categories (ii) and (iii) at Statute 6 shall be given to a candidate seeking admission under these reserved categories as per Statute 12 below, subject to the following conditions

i) Credit shall accrue only for those events/activities which the candidate has participated during the three (3) year tenure of the qualifying degree when he has remained a regular student on the rolls of a College/Institution at the under-graduate level and in case of admission to M.Ed./M.P.Ed/M.Lib. I.Sc Course, on the basis of B.Ed./B.P.Ed/B.Lib.I.Sc which is qualifying Degree. Extra time spent for the qualifying degree and achievement during that period in the above activities will not fetch any credit and thus, shall not count in determining comparative merit of the candidates.

ii) Credit for being active in the field of Sports to a candidate shall be given only for those games/sports* which the University recognises/participates at various levels.

* See Appendix- VIII

iii) A candidate applying for consideration under the reserved categories mentioned above must accumulate an achievement score of at least 8 points/marks, (4 points/marks in case of M.Ed./M.P.Ed/M.Lib.I.Sc) in the respective fields.

The candidate must have represented the University of Jammu in an Inter-University North Zone competition recognised by A.I.U./B.C.C.I. PROVIDED that if for unavoidable reason(s) the University cancels the participation of its duly selected team for such a competition, the player selected shall be deemed to have represented the University.

Cultural / Literary Activities

The candidate must have been awarded at least a certificate of merit in a competition organised by the University of Jammu such as "Display Your Talent".

iv) Only such candidates shall be considered for admission under the reserved category (ii) i.e. Sports/Cultural & Literary activities, who have not attained the age of 25 years on September 1 of the year in which the admission is being sought as per requirement of the Association of Indian Universities (AIU), New Delhi.

v) The College, where a candidate applying under reserved categories Sports/Cultural and N.C.C./N.S.S./ Bharat Scouts and Guides has been a regular student during the 3 year tenure of the qualifying degree, should maintain a record of participation and performance by the candidates in these activities to be signed by Teacher incharge of the activity and the Principal concerned. One counterfoil of the record is retained in the College and the other being sent to Sports/Cultural and N.C.C./N.S.S. wing of the university every quarter of the year so that claims of the candidates, if need be, could be verified.
(B) The marks/points for achievement in Sports/Cultural and Literary, and N.C.C./N.S.S./Bharat Scouts and Guides fields shall be calculated by a Committee to be constituted by the Vice-Chancellor in consultation with the Dean Academic Affairs, whose decision in the matter shall be final and binding on the candidates. Separate marks/points for achievement in each event/activity mentioned in the Schedule given hereinafter, shall be awarded on the basis of relevant certificate(s) submitted by a candidate applying under the reserved categories (ii) (sub-categories (a) Sports, (b) Cultural and Literary activities) and (iii) (sub-categories (a) N.C.C., (b) N.S.S./Bharat Scouts and Guides. Achievement in an event/activity participated in more than once, shall also be awarded separately. All these achievements, however, **MUST pertain only to the three (3) year tenure of the qualifying degree spent as a regular student.** Also, each relevant certificate shall be evaluated **ONLY for the event/activity for which it has been issued.** (See Statute 12)

11. ELIGIBILITY FOR SPECIFIC PROGRAMMES:
Notwithstanding anything in the preceding clauses, eligibility conditions prescribed for various programmes of study shall be as under:

**A) MASTER DEGREE PROGRAMME IN SCIENCES, LIFE SCIENCES & MATHEMATICAL SCIENCES.**

For admission to Master’s degree programme of study in Botany, Chemistry, Geography, Home Science, Mathematics, Physics and Zoology, a candidate to be eligible, must have passed/appeared in the final year of Bachelor Degree Examination securing requisite percentage of aggregate marks (specified at Statute 1) with a subject which is being opted for admission to a programme. However, the specific conditions for admission to various other programmes are as under:

i) **Electronics:** A candidate seeking admission to the programme must have passed/ appeared in final year of bachelor degree examination with Electronics or Physics as one of the elective subjects.

ii) **Geology:** A candidate seeking admission to the programme must have passed/ appeared in the final year of B.Sc examination with Geology as one of the elective subjects.

iii) **Statistics:** A candidate seeking admission to the programme must have passed/ appeared in final year of bachelor degree examination with Statistics at the under graduate level. The candidates without Statistics but with Mathematics are also eligible for admission.

iv) **Food Science & Technology:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination with Food Science & Quality Control/Home Science as elective/additional subjects or Home Science as a full stream.

v) **Information Technology:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in Science, Forestry, Agriculture, Pharmacy, Medicine, Veterinary Science, Physiotherapy, Engineering/Technology.

vi) **Computer Applications and IT (MCA):** A candidate seeking admission to MCA programme must have passed/appeared in the final year of bachelor degree examination in any stream.

vii) **Environmental Sciences:** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in Science, Forestry, Agriculture, Pharmacy, Medicine, Veterinary Science, Engineering/Technology.

**SELF FINANCING PROGRAMMES *:**

viii) **Biotechnology (Self Sponsored Seats):** A candidate seeking admission to the programme must have passed/ appeared in the final year of bachelor degree examination in Physical Sciences, Biological Sciences, Pharmacy, Agriculture, Veterinary Sciences, Fishery Sciences, Engineering/Technology, Medicine (M.B.B.S) or B.D.S. with minimum 55% marks.

ix) **Microbiology:** A candidate seeking admission to the programme must have passed/ appeared in the final year of bachelor degree examination in Biological Sciences, Pharmacy, Agriculture, Veterinary Sciences, Fishery Sciences, Medicine (M.B.B.S), Physiotherapy or B.D.S. with minimum 55% marks

x) **Biochemistry:** A candidate seeking admission to the programme must have passed/ appeared in the final year of bachelor degree examination in Physical Sciences, Biological Sciences, Pharmacy, Agriculture, Veterinary Sciences, Fishery Sciences, Medicine (M.B.B.S), Physiotherapy or B.D.S. with minimum 55% marks.

xi) **Human Genetics:** A candidate seeking admission to the programme must have passed/ appeared in the final year of bachelor degree examination in Physical Sciences, Biological Sciences, Pharmacy, Agriculture, Veterinary Sciences, Fishery Sciences, Medicine (M.B.B.S), Physiotherapy or B.D.S. with minimum 55% marks.
Remote Sensing and GIS (Self Financing Programme): A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in Science, Engineering/Technology, Agriculture, Forestry with minimum 50% marks.

* There is no reservation in Self Financing Programmes.

B) MASTER DEGREE PROGRAMME IN ARTS, SOCIAL SCIENCES, EDUCATION, LAW & MUSIC:

The eligibility conditions for admission to various programmes of study are prescribed as under:

i) Dogri: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

ii) English: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination with English as subject.

iii) Hindi: A candidate seeking admission to the programme must have passed/appeared in final year of bachelor degree examination with Hindi as an elective/additional subject or honours in Hindi language.

iv) Sanskrit: A candidate seeking admission to the programme must have passed/appeared in final year of bachelor degree examination with Sanskrit as an elective/additional subject. A candidate with honours examination in Sanskrit or Master's Degree in Hindi is also eligible.

v) Urdu: A candidate seeking admission to the programme must have passed/appeared in final year of bachelor degree examination with Urdu, Persian or Arabic as elective/additional subject or with honours examination in any of the above said languages.

vi) Buddhist Studies: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

The candidates with following qualifications shall also be eligible:

a. Master Degree Examination in any of the following viz. Sanskrit, Pali, Prakrit, Chinese and Tibetan.

b. Shastri Examination of Rashtriya Sanskrit Sansthan, New Delhi

c. Acharya Examination in Pali, Prakrit, Sanskrit, Chinese or Tibetan of Sampurnanand Sanskrit University, Varanasi, Kameshwar Singh Sanskrit University, Darbhanga, and Rashtriya Sanskrit Sansthan, New Delhi.

In addition to the existing seats, admission will also be open to foreign students fulfilling the eligibility conditions and other legal requirements. 10 (ten) seats are reserved for foreign students.

vii) Punjabi: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination with Punjabi as an elective/additional subject or with Honours (Gyani) in Punjabi.

viii) Kashmiri: A candidate to be eligible for admission to the Masters Degree in Kashmiri must have passed/appeared in the qualifying Bachelor Degree examination of 10+2+3 pattern (Honours or General) in any stream from a statutory University/Institution with at least 40% of the aggregate marks or as specified (36% for the SC/ST candidates). In addition to this a candidate must have studies Persian, Urdu, English Literature, Hindi, Dogri, Arabic, or Punjabi as one of the optional/elective subject provided that the candidate has passed matriculation with a language having Persian (Urdu) script.

ix) History: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

x) Political Science: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

xi) Economics: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination with Economics as an elective/additional subject. A candidate having passed/appeared in the final year of B.Com/BBA is also eligible.

xii) Sociology: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

xiii) Psychology: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination with Psychology.
xiv) **Education:** A candidate seeking admission to M.Ed programme must have passed B.Ed OR appeared in the bi-annual examination of B.Ed in previous session. However, those seeking admission to M.A. programme must have passed/appeared in the final year of bachelor degree examination with Education as an elective/additional subject.

xv) **B.P.Ed (Bachelor of Physical Education):** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream. The candidate must have participated in the inter-collegiate / inter University / National Level Competition in any game/sport recognized by AIU and University of Jammu OR any other University / Institution/ Association/ Federation equivalent thereof. The participation in at least inter collegiate competition is a mandatory requirement. The Physically Handicapped candidate is not eligible for admission to the programme.

The candidates qualifying the written test prescribed by the University shall have to further appear in the Canadian Test to be conducted by the Department of the Physical Education, University of Jammu.

The number of candidates to be invited for appearing in the Canadian Test shall not exceed three (3) times the number of seats available in the Department. The selection for admission shall be made on the basis of merit obtained in the Entrance Test out of those qualifying the Canadian Test.

xvi) **M.P.Ed (Master of Physical Education):** A candidate who has passed the following examination shall be eligible for the M.P.Ed programme:
   a) B.P.Ed/D.P.Ed (one year programme after graduation.)
   b) B.P.E (four years degree programme).
   c) B.P.E (three year with B.P.Ed/D.P.Ed programme of one year duration)
   d) Any other programme equivalent to any of the above examination and recognised by the University of Jammu.

The candidate must have participated in the inter collegiate / inter University / National Level Competition in any game/sport recognised by AIU and University of Jammu OR any other University / Institution/ Association/ Federation equivalent thereof. The participation in at least inter collegiate sport competition is a mandatory requirement.

The Physically Handicapped candidate is not eligible for admission to the programme.

The candidates qualifying the written test prescribed by the University shall have to further appear in the Canadian Test to be conducted by the Department of the Physical Education, University of Jammu.

The number of candidates to be invited for appearing in the Canadian Test shall not exceed three (3) times the number of seats available in the Department. The selection for admission shall be made on the basis of merit obtained in the Entrance Test out of those qualifying the Canadian Test.

xvii) **LAW (LL.B – 3 YEARS):** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream with 45% of aggregate marks (40% in case of SC/ST candidates).

xviii) **B.Lib.I.Sc (Bachelor Degree in Library and Information Science):** A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

xix) **M.Lib.I.Sc (Master Degree in Library and Information Science):** A candidate seeking admission to the programme must have passed the qualifying B.Lib.I.Sc. examination with at least 55% of the aggregate marks. However, candidates with less than the aforesaid percentage of marks shall also be considered for admission PROVIDED they have at least 10 years of professional experience of working in a University/College/Institution/Public Library.

xx) **Music:** A candidate seeking admission to the programme must have passed/appeared in final year of bachelor degree in the stream of Music. The candidate with Music as an elective/additional subject at Under Graduate Level or Honours in Music is also eligible.

C) **MASTER DEGREE PROGRAMME IN COMMERCE:**
A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.
D) DIPLOMA PROGRAMMES:

The eligibility conditions for admission to various Diploma Programmes of study are prescribed as under:

i) Post-Graduate Diploma in Business Management: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

ii) Post Graduate Diploma Programme in Human Rights and Duties Education: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

iii) Post Graduate Diploma in Computer Applications: A candidate seeking admission to the programme must have passed/appeared in the final year of bachelor degree examination in any stream.

12. SCHEDULE FOR CALCULATION OF MARKS/POINTS FOR ACHIEVEMENTS MADE BY A CANDIDATE DURING 3-YEAR TENURE OF THE QUALIFYING DEGREE PROGRAMME AS REGULAR STUDENT, IN SPORTS/CULTURAL AND LITERARY/ N.C.C./ N.S.S./ BHARAT SCOUTS AND GUIDES ACTIVITIES.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Event/Activity participated in</th>
<th>Maximum marks/ Points per Event/ Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPORTS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Represented the country in any Sport/game competition recognised by the Indian Olympic Association and organised by concerned International Federation</td>
<td>8</td>
</tr>
<tr>
<td>2.</td>
<td>Performance /participation at individual/team level in any sport/game in a Senior National Competition recognised by concerned All India Sports Federation/Association/ Board of Cricket Control of India (B.C.C.I), securing :</td>
<td></td>
</tr>
<tr>
<td></td>
<td>First Position</td>
<td>7.0</td>
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<tr>
<td></td>
<td>Second Position</td>
<td>6.5</td>
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<tr>
<td></td>
<td>Third Position</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>Participation only without securing any position</td>
<td>5.0</td>
</tr>
<tr>
<td>3.</td>
<td>Performance /participation at individual/team level in any sport/game in an All India Competition/Federation Cup Competition recognised by concerned All India Sports Federation/Association/Association of Indian Universities (AIU)/BCCI, securing :</td>
<td></td>
</tr>
<tr>
<td></td>
<td>First Position</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>Second Position</td>
<td>5.5</td>
</tr>
<tr>
<td></td>
<td>Third Position</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Participation only without securing any position</td>
<td>4.0</td>
</tr>
<tr>
<td>4.</td>
<td>Performance/participation at individual/team level at any sport/game in Inter-Zonal competition recognised by AIU/BCCI, securing:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>First Position</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>Second Position</td>
<td>5.5</td>
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<tr>
<td></td>
<td>Third Position</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Participation only without securing any position</td>
<td>4.0</td>
</tr>
<tr>
<td>5.</td>
<td>Performance/participation at individual/team level in any sport/game in Inter-State North Zone competition recognised by concerned All India Sports Federation/Association/BCCI, securing:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>First Position</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>Second Position</td>
<td>5.5</td>
</tr>
<tr>
<td></td>
<td>Third Position</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Participation only without securing any position</td>
<td>4.0</td>
</tr>
<tr>
<td>6.</td>
<td>Performance/participation at individual/team level in any sport/game in Inter-University North Zone competition recognised by AIU/BCCI securing:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>First Position</td>
<td>6.0</td>
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<tr>
<td></td>
<td>Second Position</td>
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<tr>
<td></td>
<td>Third Position</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>Participation only without securing any position</td>
<td>4.0</td>
</tr>
</tbody>
</table>
7. Having attended an All India Coaching Camp organised by concerned All India Sports Federation/Association/AIU/BCCI for selection to represent the country in any sport/game, or having been member of a Combined Universities team/contingent constituted/recognised by AIU for any sport/game.

8. Performance/participation at individual/team level in any sport/game in Junior National competition recognised by concerned All India Sports Federation/Association/ BCCI/ Athletic Federation of India, securing:
   First Position 3.0
   Second Position 2.5
   Third Position 2.0
   Participation only without securing any position 1.5

9. Performance/participation at individual/team level in any sport/game in Inter-College competition organised by Jammu University, securing:
   First Position 2.0
   Second Position 1.5
   Third Position 1.0
   Participation only without securing any position 0.5

NOTE: Outstanding Sports persons having played in any Senior National event in any of the games shown in Appendix-VIII shall also be considered for admission under Sports category.

CULTURAL & LITERARY ACTIVITIES:

1. Having attended Youth Cultural Exchange Programme at International Level or having participated & performed in any International Youth Festival.

2. Having participated and performed as a member of the State/Jammu University contingent in any solo/group item in National competition, organised by the Association of Indian Universities (AIU)/State/Central Govt.agency, securing:
   First Position 10.0
   Second Position 9.0
   Third Position 8.0
   Fourth Position 7.0
   Participation only without securing any position 6.0

3. Having participated and performed as a member of the Jammu University contingent in any solo/group item in an Inter-University Zonal Competition, securing:
   First Position 9.0
   Second Position 8.0
   Third Position 7.0
   Participation only without securing any position 4.0

4. Having participated and performed as a member of the contingent of an affiliated College/University/Teaching Department in any solo/group item in a competition namely “Display Your Talent” or any other competition organised by the Department of Students Welfare, University of Jammu securing:
   First Position 8.0
   Second Position 7.0
   Third Position 6.0
   Certificate of Merit/Consolation Prize 4.0
   Such of the candidates who distinguish themselves individually in a team event shall get awards in addition to the above score in the team event:
   a) For overall best performance 3.0
   b) For Acting Award in One Act Play or Skit:
      i) Best Actor/Actress 2.5
      ii) 2nd Best Actor/Actress 2.0
      iii) 3rd Best Actor/Actress 1.5
      iv) Certificate of Merit/Consolation 1.0
5. Having participated and performed as a member of the contingent of an affiliated college/university team in any solo/group item in a competition organised by the J&K Academy of Art, Culture and Languages, securing:

- First Position: 7.0
- Second Position: 6.0
- Third Position: 5.0

6. Having secured recognition as approved Music/Drama Artist of Akashwani (Primary Service)/Doordarshan Kendra as certified/countersigned by the Director Radio Kashmir Jammu/Doordarshan Kendra, Jammu. 4.0

**EXPLANATION**: Cultural and Literary activities shall include:

**FINE ARTS**: Painting, Sketching, Poster-making, Cartooning, Collage, Clay modeling, Rangoli, Flower arrangement, Installation & Photography. **MUSIC**: Light Vocal (Solo), Semi-Classical Vocal (Solo), Classical Vocal (Solo), Western Vocal (Solo), Western Group Song, Indian group song, Classical instrumental(Solo) (Percussion and Non-Percussion). **DANCES**: Classical Dance (Solo), Creative Dance (Solo) and Folk/Dance THEATRICALS: Mime, Skit, Monoacting, Mimicry and One Act Play presentation. **LITERARY**: Short Story and Essay Writing, Debate, Eloquence, Poetry recitation, Quiz competitions and Youth Parliament. Participation in the aforesaid activities will fetch credits only if these are organised and/or authenticated by the concerned Wing/Authority of the University of Jammu i.e. Office of the Dean Students Welfare. Certification to that effect by any other Organisation, Body, Society, Club, University Teaching Department, College, Institution, NGO etc. shall not be entertained. Concerned Govt. Departments/Agencies organising competitions in such activities and awarding participants therein, shall have to provide the list of prize winners/participants to the Office of the Dean Students Welfare of the University within a month from the date of completion of such a competition, failing which no credit shall accrue to a candidate seeking admission under Cultural and Literary Activities, though participated therein.

**NATIONAL CADET CORPS (NCC)**

1. Having attended NCC Youth Exchange Programme in foreign countries. 9

2. Having attended Republic Day (RD) camp at Delhi and adjudged/Secured position in an individual/team competition as under:

- Best Cadet: 7.0
- First Position: 6.5
- Second Position: 6.0
- Third Position: 5.5

Participation only without securing any position: 5.0
Participation in Local Republic Day and Independence Day Parades: 3.0

**NOTE**: Cadets attend minimum 10 to 15 days preparatory parades for participation in local Republic Day and Independence Day parades held at all District Levels. The certificates must be issued/authenticated by Divisional Commissioner/DC of the concerned districts.

2.1 Thal Sainik (TSC) /Vayu Sainik (YSC) / Nau Sainik (NSC) Camps:

1. TSC / YSC / NSC: These are all India Camps held every year, and are for a duration of 12 days. In these camps cadets represent their Directorate in Inter-Directorate Competitions. The Following All India Inter-Directorate Competitions are held during these camps:

- a) Shooting
- b) Map Reading
- c) Communication
- d) Health & Hygiene
- e) Obstacle Course
- f) Line Area

**Note**: To select and prepare cadets for the above competition, three camps of 12 days duration each are held at the Group and Directorate level. Hence, a cadet who finally represents the Directorate at Delhi has to attend four camps of 12 days duration each.

The process of selection and nomination is akin to Republic Day (RD) Camp. Hence TSC/YSC/NSC should be treated at par with RD Camp and points awarded should be equivalent to RD Camp.

3. Having been awarded Defence Secretary’s /Director General's (DG) medal/commendation card 6

4. Having received/been awarded any of the following:

2. Medal of Duke of Edinburgh Award 5.0
3. Governor's/Chief Minister's Medal. 5.0
4. Best cadet cash Award on overall performance from
   deputy D.G.N.C.C., J&K.  5.0
5. Participation in Slithering/Parasailing/Para diving  3.0
   These are individual events that are not included in the list. A cadet has to undergo 7 to 10 days training prior
to undertaking this adventure activity.

5. Having passed "C" certificate examination of NCC in
   A - grade  5.0
   B - grade  4.5
   C - grade  4.0

6. Having attended any of the following All India NCC Camps of not less than 10 days duration and adjudged /
   secured position therein in an individual/team competition as under
   Best cadet  5.0
   First Position  4.5
   Second Position  4.0
   Third Position  3.5
   Participation only without securing any position  3.0

   **EXPLANATION:** The Camps are:
   i) Army Attachment Training Camp;
   ii) National Integration Camp;
   iii) Advanced Mountaineering Camp;
   iv) Trekking Expedition Camp;
   v) Basic and Advanced Leadership courses Camp;
   vi) Snow Skiing and Water Sports courses Camp.
   vii) Rock Climbing Camp.

7. Having successfully undergone NCC para-training course at Agra / courses conducted at IMA/Women
   Training Camp at Gwalior.  4.0
   7.1 Basic Mountaineering Course.  4.0
   This is a 15-day camp held at various mountaineering institutes.
   7.2 Pre-TSC-I, II and Pre-RDC, I to III  4.0
   These camps are of duration of 12 days duration each. They should be treated at par with Annual Training
   Camp (ATC) which is also of 12 days duration:

8. Having passed "B" certificate examination of NCC in:
   A - grade  3.0
   B - grade  2.5
   C - grade  1.0

9. Having secured position in an Inter-Collegiate Competition Organised by the University through NCC:
   First Position  2.0
   Second Position  1.5
   Third Position  1.0

10. Having attended NCC Annual Training Camp (ATC) of not less than 10 days duration  2.0

11. Having donated blood in a camp organised by NCC, subject
    to a maximum of three donations per year to be assessed @ 2 marks/point per donation. (Certificate of the donation
    must be issued by designated Red Cross Authority/Chief Medical Officer of the District/Blood Bank Officer of Medical
    College and duly authenticated by the camp incharge.

**NOTE**:  
1. No provisional certificates shall be entertained for ‘B’ and ‘C’ certificate examination.
2. A candidate has to earn minimum score of eight credits to be eligible for consideration of Admission under
   NCC category.
3. No certificate shall be entertained unless issued by the concerned authorities / agency with proper seal and
   signature.
4. The highest marks of an event in the same category shall be awarded.
5. RD/ID Certificates issued only by Divisional Commissioner/Deputy Commissioner shall be considered.
6. For admission under the category of NCC participation during the 3 year tenure of B.A./ B.Sc/ B.Com./ B.B.A./
   B.C.A./ (General course 10+2+3) shall be considered.
NATIONAL SERVICE SCHEME (NSS)

1. Having participated in international NSS Youth Exchange Programme  9
2. Having been awarded for NSS activities with any of the following  8
   a) Governor’s Medal  8.0
   b) Education Secretary’s Commendation card/Medal  6.0
   c) Certificate of rendering 120 hours of social service  5.0
      Continuously for 2 years (Vice-Chancellor’s Commendation Certificate)

EXPLANATION: To obtain 120 hours social service certificate as mentioned above, report concerning 120 hours social service rendered in addition to the regular, special and NSS camping activities along with ‘NSS Work Diary’ certified and verified by concerned NSS Programme Officer, Principal/Chairman, along with documentary evidence, shall be submitted to the NSS Co-ordinator. The Chairman, NSS Advisory Committee/Vice-Chancellor shall issue such a certificate on the basis of the report of NSS, Programme Co-ordinator. All documents as per directions & norms should be submitted in the month of April.

3. Having participated in Republic Day Camp, New Delhi as follows  7.0
   a) Having attended & been adjudged as Best NSS Volunteer/Commander in the RD. Camp  7.0
   b) Having only attended the Camp  6.0
   c) Having attended Pre-Republic Day camp organised by Govt. of India  5.0
   d) Having attended Two day selection workshop for Pre RD. Camp organised by the University  3.0

4. Having participated in all India Camp such as National Integration Camp/All India Youth Camp/Youth Festival organised by University/Regional Centre, NSS in collaboration / sponsored by Govt. of India, Ministry of Youth Affairs and Sports.  6.0
   - Best Volunteer (overall)  6.0
   - Participation  5.0

5. Having participated in Inter College NSS Camp organised by University/College for duration of not less than 7 (seven) days & sponsored by University/State Govt.  5.0
   - Best Volunteer (overall)  5.0
   - Participation  4.0

6. Having participated in NSS Camp of not less than 10 Days duration organised by the College. (Subject to the submission of list of the participants with their full description in the office of NSS, Programme Coordinator.) No credit will be given in case of such colleges where the records of the Special Camps have not been submitted in the NSS Office within one month of the organisation of such camps. A maximum of three Annual Camps (10 days duration) at U.G. level shall be considered for admission under NSS achievement category.  4.0

7. Having secured in any recognised individual inter-collegiate/collaboration with Govt. of India / State Govt. / any Govt. Deptt.  3.0
   First Position  3.0
   Second Position  2.5
   Third Position  2.0

8. Having participated in a Two/Three Days Training Workshop on Youth Leadership or on any relevant Social issue organised in the Office of the Programme Coordinator, NSS in collaboration with State Govt. / GOI / NGO’s. OR
   Having participated in a Two/Three Day Training Workshop Course on Youth Leadership or on any relevant Social Issue organised by the college NSS units. Provided that permission for such workshop has been obtained 15 days prior to the commencement from the Programme Coordinator, NSS University of Jammu on the recommendations of the Programme Officer of the concerned college. The list of the participants has to be submitted in the office of the Programme Coordinator, NSS University of Jammu within Ten days of the completion of workshop.  3.0

9. Having participated as a member of the NSS unit of College in camps/courses of not less than seven (7) days duration organised by Govt./Semi Govt. agencies/NGO’s/ Social Organisation in coordination/collaboration with NSS, Programme Coordinator/Regional Centre. Provided that permission for such participation has been obtained 15 days prior to the commencement of the camp/course from the
Programme Coordinator, NSS on the recommendation of the Programme Officer of the concerned unit and the Principal of the concerned college.

3.0

10. Having donated blood through NSS unit of the colleges subject to a maximum of 3 donations per year, to be assessed @ 2 marks/points per donation, on the production of a certificate to be issued by District Chief Medical Officer/Blood Bank Officer of a Medical College/Red Cross Authority and duly authenticated by Incharge NSS Unit P.O./Principal.

2.0

NOTE:
1. The certificate issued with effect from 2007-08 session should bear the VEC (Volunteer Enrolment Code) number issued by the office of NSS Programme Coordinator. No certificate without VEC number will be eligible for the admission purpose.
2. A candidate has to earn minimum score of eight credits to be eligible for consideration of Admission under NSS category.
3. The highest marks of an event in same category shall be awarded.
4. Each certificate issued by the NSS units should be authenticated by the office of NSS Programme Coordinator. No certificate without proper authentication shall be considered for admission under NSS category.
5. The Programme Officer/s, NSS of the college & concerned has to submit a list of participants of an event duly forwarded by the Principal alongwith the certificates to by authenticated by the Programme Coordinator, NSS, University of Jammu.
6. No inter college activity can be organised at the college level without the prior permission of the office of the Programme Coordinator, NSS, University of Jammu.
7. For admission under the category of NSS participation during the 3 year tenure of B.A./B.Sc./B.Com./B.B.A./B.C.A. (General course 10+2+3) shall be considered.

BHARAT SCOUTS & GUIDES

The admission under the Bharat Scouts & Guides may be offered to such students, who fulfill the eligibility conditions to be determined on the basis of the list of activities given below:

1. Participated in International Events organised by National HQRS of Bharat Scouts & Guides 9
2. President Awardee (Scouts & Guides / Rovers & Rangers) 8
3. Vice-President Awardee (Rovers & Rangers) 7
4. Prime Minister Shield Competition Awardee (Scouts & Guides) 6
5. Governor's Rajya Purskar & Certificate of Honour (Scouts & Guides) 6
6. Participation in Jamboree / National Camps organised by National HQRS of Bharat Scouts & Guides (Scouts & Guides / Rovers & Rangers) 5
7. Participation in State Level Special Camps organised by J&K Bharat Scouts & Guides (Scouts & Guides / Rovers & Rangers) 4
8. Having completed Parvesh, Parveen and Nipun stages 3
9. Having donated blood through Bharat Scouts & Guides to a maximum of 3 donations per year to be assessed @ 2 marks / points per donation on the production of a certificate to be issued by District Chief Medical Officer / Blood Bank Officer of a Medical College / Red Cross Authority and duly authenticated by State Chief Commissioner J&K Bharat Scouts & Guides.

2

13. MERIT DETERMINATION:

Admission to the PG Departments of the University/ Campuses/Affiliated Colleges shall be made on the basis of Entrance Test and Academic Merit of Graduation. The weightage to be accorded to the Entrance Test and Academic Merit of Graduation shall be 70:30 respectively. The each year of Graduation i.e. Part I, II, & III shall be accorded the weightage of 10% each.

Inter-se-merit of a candidate seeking admission to a programme of study in a teaching department, shall be determined by the concerned admission committee and where necessary, in consultation with the Committee constituted to assess achievement in reserved categories of Sports/Cultural & Literary, and N.C.C./N.S.S./Bharat Scouts & Guides activities.

(A) Selection Criterion for Admission.

The criteria to determine merit shall be as follows:

1. Admission to the PG Departments of the University of Jammu, Jammu/ Campuses/Affiliated Colleges shall be made on the basis of Entrance Test and Academic Merit of Qualifying Examination. The final merit of a candidate out of 100 shall be calculated by giving a weightage of 70 i.e. marks obtained in the Entrance Test and a weightage of 30 to the percentage of marks obtained in the qualifying examination- the 30 shall be calculated by giving the weightage of 10% each to the percentage of marks in Part I, II & III.
NOTE: For admission to the programmes like M.Ed/M.P.Ed/M.Lib.I.Sc/B.Com (Honours)/B.A English (Honours)/B.A. LL.B (5 Year)/ BBA (HM) etc the weightage of 30 to the percentage of marks obtained in the qualifying examination shall be accorded so as to calculate the academic merit of the candidate.

2. There shall be 70 objective type questions carrying one (1) mark each for each subject/programme; 60 questions of the concerned subject/programme within the notified syllabus and 10 questions on Logic and Reasoning.

3. Candidates can apply for appearing in the Entrance Test of a maximum of 5 Programmes. The duration for each paper shall be 75 minutes (i.e., One hour and fifteen minutes). The examination shall be spread over 11 days. There shall be 4 subject specific tests on each day spread over two shifts. The schedule shall be as follows:
   a) Shift One Paper I (10:00 to 11:15 hrs IST)  
      Paper II (12:00 to 13:15 hrs IST)
   b) Shift Two Paper III (14:00 to 15:15 hrs IST)  
      Paper IV (16:00 to 17:15 hrs IST)

4. Every wrong answer shall be awarded minus (-) 0.33 marks. The candidate is required to obtain a minimum of 21 marks out of 70 questions for each subject/programme for general category candidates and 17 marks out of 70 for candidates belonging to SC/ST/ST (residents of Leh & Kargil) category to be considered for admission.

5. If the number of candidates who qualify the Jammu University Entrance Test (JUET) is less than the number of seats in Open Merit or Reserved Categories, relaxation upto 4 marks in the Entrance Test may be allowed by the Hon’ble Vice-Chancellor on the recommendation of the Admission Committee of the concerned Department.

6. The tie between candidates seeking admission shall be resolved by reference to the marks in the Entrance Test, if the tie persists then the tie shall be resolved by reference to the aggregate marks in first Degree i.e. B.A/ B.Sc./ B.Com/BBA/ BCA etc examination & if, the tie still persists, to their marks in the Part-III of the Qualifying Examination & if the tie still persists, then to their higher marks in Part II of the said Examination. Higher marks in the said examination shall determine priority in Admission.

(B) Selection Criteria for Achievement Categories.

Merit of the candidates applying under reserved categories of Sports/Cultural & Literary, and NCC/NSS/ Bharat Scouts and Guides activities specified at Statute 6 shall be determined on the basis of (i) marks/po ints awarded to such a candidate for these activities, plus (ii) one-fourth (1/4) of the PERCENTAGE of marks calculated by giving a weightage of 70 i.e. marks obtained in the Entrance Test and a weightage of 30 to the percentage of marks obtained in the qualifying examination- the 30 shall be calculated by giving the weightage of 10% to the percentage of marks in Part I, II & III. The composite score thus calculated, shall form the basis of admission, PROVIDED that the candidate seeking admission unless covered under Statute 13. Explanation e(i), has not been admitted to any programme of study in the University in an earlier under the aforesaid reserved categories. PROVIDED also, that where candidates have obtained equal composite score, the tie shall be resolved by reference to their achievement merit in the respective activity determined as per Statute. Higher achievement merit shall determine priority in admission.

ACHIEVEMENT SCORE + ¼ (ENTRANCE TEST MARKS + (10% weightage each to the Part I, II & III of Graduation))

NOTE: For admission to the programmes like M.Ed/M.P.Ed/M.Lib.I.Sc/B.Com (Honours)/B.A English (Honours)/B.A. LL.B (5 Year)/ BBA (HM) etc the weightage of 30 to the percentage of marks obtained in the qualifying examination shall be accorded so as to calculate the academic merit of the candidate.

14. ORDER OF ADMISSION:

Subject to fulfillment of eligibility criteria and other conditions prescribed for a course of study, admission in a teaching department of the University shall first be given to a candidate who;

(A) (i) has passed/appeared in the qualifying examination from the University of Jammu; or
(ii) is a permanent resident of the territorial jurisdiction of the University but has passed/appeared in the qualifying examination or an equivalent examination from a University other than the University of Jammu; or
(iii) has passed/appeared in the qualifying or equivalent examination from the University of Kashmir and seeking admission to a course which does not exist in the University of Kashmir, subject to the condition that such concession is also provided by the University of Kashmir for students who have passed/appeared in the qualifying or equivalent examination from University of Jammu and seek admission to a programme of study in the University of Kashmir for which arrangement for teaching does not exist in the University of Jammu; or
(iv) is an employee of the Central or a State Government or a Public Undertaking or any other organisation recognised for the purpose by the Syndicate, posted within the territorial jurisdiction of the University, or son/daughter/spouse of such an employee; or
(v) is not permanent resident of the territorial jurisdiction of the University of Jammu, but has passed/appeared in B.A./B.Sc./B.Com./B.B.A./B.C.A. (General or Honours examination, 10+2+3 pattern) with not less than 60% marks from a University other than the University of Jammu, subject to the condition that the number of seats under this category shall not exceed 10% of the total number of seats available in a programme of study.
(B) After making admission of students falling under Statute 14(A) if seats in any course of study remain vacant these shall be open to such other candidates as have passed/appeared in the qualifying examination from any recognised University provided they have applied in time and are otherwise eligible.

NOTE:
In view of rampant reports of fake certificates and fake Universities, the University reserves the right of screening applicants seeking admission who have obtained their qualifying degrees from Universities other than the University of Jammu, and evaluating their competence before considering them for admission in a manner as would be notified by the Office of the Dean Academic Affairs from time to time.

In pursuance of the decision taken by the Standing Committee of the Academic Council at its meeting held on 5th September 2005 vide Notification No.F.Acd/V/128/05/6368-6517 dated 05/10/2005, any course run by Study Centres/franchises of any University in the Country except IGNOU, is not recognised.

15. Unless otherwise provided for in these Statutes, a person after having passed/appeared in the B.A/B.Sc./B.Com./B.B.A / B.C.A. (General Examination, 10+2+3 pattern) or an examination recognised equivalent thereto, seeks admission for the first time to a Post-Graduate programme or a Diploma Course in a department of study of the University shall be given preference over a person who has already undergone any Post-Graduate Course or LL.B. (Professional) programme in any University.

NOTE :
This Statute shall also be applicable to other P.G. Departments where the admission is done through a separate Entrance test.

EXPLANATION :
(i) Such of the candidates who have pursued LL.B. (Professional) or a Post-Graduate programme for not more than first two semesters or one academic year in a teaching department of this or any other University, or have not passed any Post-Graduate examination as a private candidate, shall be treated at par with students seeking admission to a Post-Graduate programme/LL.B. (Professional) in the University for the first time PROVIDED that admission under such a parity shall be considered only once i.e. in the session immediately following the first admission.

(ii) Persons having pursued one year Diploma Programme in a teaching department of any University or have obtained B.Lib.Sc. or B.Ed. degree shall be treated at par with the students who are seeking admission to LL.B. (Professional)/a Post-Graduate Programme in the University for the first time.

16. Notwithstanding anything contained in these Statutes, a student who having fallen short of attendance for reasons beyond his control becomes ineligible to appear in the University examination shall be considered for fresh admission in the next consecutive year in the same programme of study in which he fell short of lectures in the preceding year alongwith those who apply for admission to a programme of study in the University for the first time. This concession shall be available to a candidate only once PROVIDED that he figures in the merit list and also, that conduct of such a candidate during his previous stay in the department has been to the entire satisfaction of the Head of the Department concerned.

17. (A) Subject to fulfillment of eligibility conditions, the Vice-Chancellor may at his discretion, authorise admission to a programme of study of either a totally blind or an orthopedically handicapped candidate suffering a degree of disability of 45% and above.

EXPLANATION
(A) i) Admission of a student authorised by the Vice-Chancellor under this Statute shall be a supernumerary seat in a programme of study in the department. 
ii) Certificate of an orthopaedic handicap or blindness shall be considered only if it is issued by the Head of the Department of Orthopaedics or that of Ophthalmology of a Govt. Medical College. The Vice-Chancellor, if he so desires, may seek advice in the matter, of a Committee to be appointed by him on the recommendations of the Dean Academic Affairs.

(B) i) The University may, subject to fulfillment of eligibility conditions, consider the admission of one candidate in each programme belonging to Kashmiri migrant families, in the order of merit, not exceeding one in a particular programme, provided that such a candidate produces documentary evidence of belonging to a family registered as Kashmiri migrant subject to production of the said Certificate from the Relief Commissioner. Such admission may be authorised by the Dean Academic Affairs against a seat which shall be supernumerary in a programme of study in the department.

(ii) The University may, subject to fulfillment of eligibility conditions consider the admission of one candidate in each programme belonging to the wards of permanent employees of the University of Jammu (Teaching/Non-Teaching), in order of merit, not exceeding one in a particular programme. Such admission may be authorised by the Dean Academic Affairs against a seat which shall be supernumerary in a programme of study in the Department.
18. Any person in employment or self employment or engaged in a business or profession, is not eligible for admission to any whole time programme i.e. a programme conducted during the day time, in the University teaching departments. Such a person may, however, be considered for admission, PROVIDED that:

(i) if in employment, he will produce a certificate from his employer that the employer has no objection to his pursuing a whole time programme in the University, and that the employee is on authorised leave for the purpose of study in the University;

(ii) if self employed or engaged in a business or a profession, he will give a written undertaking to devote his whole time for studies as a student during the period he remains on rolls of the University teaching department and he shall not engage in any business or profession or avocation during this period or engage in any activity which is likely to interfere with his studies in the University. Such cases will be examined by the Admission Committee which will make appropriate recommendations to the Dean Academic Affairs

EXPLANATION:
All programmes shall be treated as whole time programmes of study, except Post-graduate Diploma Programme in Business Management, so long as its classes are held in the evening.

CANCELLATION:
19. Each candidate who is granted admission shall not take up any employment or engage in any business or profession so long as he is on the rolls of the University. Any student who takes up an employment or engages in business or profession in violation of the Statutes, his name shall be struck off from the rolls of the teaching department of the University.

20. The Admission Committee concerned, with the approval of the Dean Academic Affairs, shall have the authority to refuse or cancel admission of a candidate/student who:

(i) either fails to produce the requisite certificate in original within the time prescribed or provides information in his application form which is found incorrect or produces a certificate which is not genuine.

(ii) in the opinion of the Admission Committee, has taken up employment or avocation which is likely to interfere with his studies in the University.

(iii) fails to pay the fees and deposits including Hostel fees and deposits, within the time prescribed by the Warden of the Hostel concerned.

21. The Head of the Department shall be competent to cancel admission of a student enrolled for a programme of study in the department if the student remains absent without permission of the Head of the Department concerned for a period of 15 days continuously and/or does not attend 50% or more of the total lectures delivered in the Semester concerned, PROVIDED that before cancellation of admission, the concerned Head of the Department will provide an opportunity to such a candidate to explain why action be not taken against him.

NOTIFICATION AND FEE:
22. Names of the candidates selected for admission shall be notified from time to time on the Notice Board of the Concerned Department. the candidates shall be required to watch such notifications and comply with the instructions given in all respects failing which their selection shall be cancelled and no complaint will be entertained in this regard.

23. Admission fee and other charges payable by each student selected for admission to a programme of study shall be such as may be prescribed from time to time*.

* See Appendix- II & III

Provided that if a student having been admitted to a programme in a teaching department and having deposited the required fees is selected subsequently, in the same session, in any other department of the University, may be allowed transfer of fee deposited by him, by the Admission Committee.

Provided further that if a student has been admitted to a programme wishes to discontinue within the days of admission including late admission in a session, refund of the charges/fees paid by him may be authorised after deducting the following:

(i) such percentage of fee forming part of the local funds of the department actually spent for or on behalf of the student concerned, as may be decided by the Head of the Department concerned.
CONTINUED ENROLMENT:

24. A candidate having passed 1st, 3rd or 5th semester examination of the Master's Degree Programme as a private candidate shall not be granted admission to 2nd, 4th, and 6th semester of a programme as a regular student, PROVIDED that in case of availability of seats, the Dean Academic Affairs may, on the recommendations of the Admission Committee, authorise admission of a candidate who has passed all programmes of 1st semester examination and has appeared in all the programmes prescribed for the 2nd semester examination as a private candidate to the 3rd semester of a programme of study.

Admission of regular students to 3rd semester in a programme of study except where provided otherwise, will be made only if they have earned at least 50% credits in programmes of 1st semester (40% credits in M.Com 1st semester) and also if they have passed in Internal assessment in all programmes of the 2nd semester and fulfill the attendance requirement.

25. Continued enrolment in the II, III and IV (V and VI where applicable) semester of a programme shall be granted on the prescribed form to be submitted by every student seeking continuation of admission to the concerned semester. Enrolment to the II & IV (VI where applicable) semester shall be completed by the Head of the Department concerned within 15 days from the date of termination of I/III (V where applicable) semester examination. Enrolment to the III (and V where applicable) semester shall be completed within 15 days from the date the class work of III/V semester starts:

Provided that a prescribed late fee* shall be paid by each student seeking admission after the last prescribed date, up to a maximum of 15 days delay where after no admission shall be granted.

Notwithstanding anything contained above, the Vice-Chancellor may alter the above schedule of continued enrolment.

26. A regular student who after having passed all the prescribed courses of I and II, or III and IV semester examinations of Master Degree/LL.B. (Professional), discontinues his study for good and sufficient reasons to the satisfaction of the Head of the Department concerned, may be considered for admission to III, or V semester of the course, as the case may be, PROVIDED that not more than one year has elapsed after his having passed the II or IV semester examination in the concerned programme of study. Such a break shall be allowed only once during a programme of study. PROVIDED further that such a student will have to offer courses which are prescribed for the session to which admission is being sought unless it leads to repetition of any course(s) of the Programme of study.

27. If as a result of re-evaluation, a candidate passes in the B.A/B.Sc./B.Com./B.B.A./B.C.A. Part III (Final Examination), he/she shall be considered for admission in a Teaching Department only if seat/s is/are available and the merit of such a candidate is higher than that of the candidate who is at the top of the waiting list of the concerned teaching department.

Provided further that no admission shall be made in the teaching department (working on Semester Pattern) of the University after 15 working days of the commencement of the teaching in the department concerned or 20 calendar days after the meeting of the Appellate Committee whichever happens to be later.

The attendance and internal assessment of a candidate who is granted admission under this statute shall be counted from the date of his/her admission.

PERIOD OF STAY:

28. No student can remain on rolls in the teaching departments of the University exceeding the period indicated against each, if he/she has pursued more than one programme of study:

i) Master's Degree Programme and Diploma Programme: 4 year
ii) Master Degree & LLB: 6 year
iii) LL.B. (Professional) and MCA: 7 year
iv) LLB (Professional) & Diploma Programme: 5 Year
v) B.A. LLB (5 year) & Diploma Programme: 7 year
vi) B.A. LLB (5 year) & Master Degree: 8 year
vii) B.A. LLB (5 year) & MCA: 9 year

EXPLANATION:

(i) Stay in the University would mean stay in all teaching departments of the University put together,
(ii) 4/5/6/7/8/9 years would include the period required for completion of the programme in which admission is sought.
(iii) Admission of a candidate who has already pursued two Master Degree Programmes OR Ph.D / M.Phil Programme is / are not eligible to seek admission to another PG/Diploma Programme.
PERMISSION FOR PRACTICALS TO PRIVATE CANDIDATES:

29. A Science department may accord permission to members of the Laboratory Staff of the University, and such teachers who hold at least 5 years of teaching experience in a school recognised by the J&K Government, to perform the required number of practicals to earn eligibility for appearing in the Master's Degree examination as a private candidate. Required teaching experience certificate issued/endorsed by the Director, School Education, Jammu will have to be enclosed with the application form. This permission may be granted to one candidate each year on the basis of merit. This facility will not encroach upon the number of seats meant for open merit category. If any seat falls vacant after the last date of admission, that may also be used for granting similar permission to the other beneficiaries in the above category and the Scientific Staff of the Indian Institute of Integrative Medicine, Jammu (Erstwhile Regional Research Laboratory, Jammu) in accordance with the Statutes provided that such a permission shall not be granted after one week of the close of admission.

30. There shall be a Committee consisting of members as given in Annexure I (C) to interpret these Statutes whose decision shall be final and binding.
(A) ADMISSION COMMITTEE
   i) Dean of the Faculty concerned
   ii) Head of the Department concerned
   iii) Two or more teachers nominated by the Dean Academic Affairs on the recommendation of the concerned Head of the Department. Three members shall form quorum of the committee.

(B) APPELLATE COMMITTEE
   i) Vice-Chancellor (Chairman)
   ii) Dean Academic Affairs
   iii) Dean of the Faculty concerned
   iv) Convenor of Board of Studies in the subject.
   v) Head of the Department concerned

(C) INTERPRETATION COMMITTEE
   i) Dean Academic Affairs (Chairman)
   iii) Registrar
   iv) Asstt. Registrar Academic Affairs (Secretary). Majority of members shall form the quorum in all matters relating to the interpretation of the statutes. Decision of the committee shall be final and binding.

(D) COMMITTEE FOR ASSESSMENT IN ACHIEVEMENT CATEGORIES :

   The committee shall comprise of the following :-

   i) One nominee of Dean Academic Affairs who shall act as Chairman of the Committee.
   ii) Two Heads of Departments/ University Professors.
   iv) Evaluators from each reserved category to be nominated by the DAA in consultation with NSS Coordinator/Dean Students Welfare/Director Sports/NCC. The Committee shall have the power to co-opt any other member/s to assist it.
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description</th>
<th>IN INDIAN RUPEES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Admission fee</td>
<td>Rs. 220 (To be deposited in the University Chest)</td>
</tr>
<tr>
<td>2.</td>
<td>University Sports fee</td>
<td>Rs. 190 (To be deposited in the University Chest)</td>
</tr>
<tr>
<td>3.</td>
<td>University Development fund</td>
<td>Rs. 330 (To be deposited in the University Chest)</td>
</tr>
<tr>
<td>4.</td>
<td>Magazine/University News Bulletin fee</td>
<td>Rs. 60 (To be deposited in the University Chest)</td>
</tr>
<tr>
<td>5.</td>
<td>Corpus fund</td>
<td>Rs. 640 per student admitted in the Non-Govt. Colleges of the University, to be deposited by the respective College(s) every year along with the RR and Rs. 110/- per student admitted in the Govt. Colleges / University Deptt./ Campuses, to be deposited in the University Chest.</td>
</tr>
<tr>
<td>6.</td>
<td>Library fee</td>
<td>Rs. 110 (To be deposited in the University Chest)</td>
</tr>
<tr>
<td>7.</td>
<td>Science fee</td>
<td>Rs. 440 (To be deposited in the University Chest)</td>
</tr>
<tr>
<td>8.</td>
<td>Stationery fee (All Departments except Law Deptt. Where the fee shall be Rs. 80/- for LL.B. &amp; Rs. 225/- for LLM. Course / Diploma Course. Out of Rs. 80/-, Rs. 40/- to be retained by the Law Deptt. in the Local Fund and Rs. 40/- to be remitted in the University Chest. Rs. 200/- to be retained by the Law Deptt. in the Local Fund) &amp; Rs. 25/- to be remitted in the University Chest</td>
<td>Rs. 130 (Rs. 40/- to be retained by the Deptt &amp; Rs. 90/- to be remitted in the Univ. Chest)</td>
</tr>
<tr>
<td>9.</td>
<td>Games fee</td>
<td>Rs. 220 (Rs. 165/- to be deposited with the Deptt. of Physical Education &amp; Rs. 55/- to be retained by the Deptt.)</td>
</tr>
<tr>
<td>10.</td>
<td>Cultural/Literary fee</td>
<td>Rs. 80 (To be remitted to the Dean, Students Welfare)</td>
</tr>
<tr>
<td>11.</td>
<td>Social Activities fund</td>
<td>Rs.70 (to be retained by the Deptt.)</td>
</tr>
<tr>
<td>12.</td>
<td>Student Assistance/Aid fund</td>
<td>Rs. 50 (to be retained by the Deptt.)</td>
</tr>
<tr>
<td>13.</td>
<td>Reading Room fee</td>
<td>Rs. 80 (to be retained by the Deptt.)</td>
</tr>
<tr>
<td>14.</td>
<td>Excursion fee : (Actual expenditure to be realised by the Department at the time of conducting the excursion)</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Identity Card</td>
<td>Rs. 20 (to be retained by the Deptt.)</td>
</tr>
<tr>
<td>16.</td>
<td>Miscellaneous</td>
<td>Rs. 20 (To be remitted to the Deptt.)</td>
</tr>
<tr>
<td>17.</td>
<td>Medical Assistance</td>
<td>Rs. 50 (To be remitted to the Univ. Health Centre)</td>
</tr>
<tr>
<td>18.</td>
<td>NSS Fee</td>
<td>Rs. 60 (To be remitted to the NSS Programme Coordinator)</td>
</tr>
<tr>
<td>19.</td>
<td>Library development fund</td>
<td>Rs. 220 (To be remitted to the Dhanvantri Libray)</td>
</tr>
<tr>
<td>20.</td>
<td>IQAC Fee</td>
<td>Rs. 110 (To be remitted to Director, DIQA)</td>
</tr>
<tr>
<td>21.</td>
<td>Practical Training fee (to be charged from the students joining LLB Course</td>
<td>Rs. 110 (to be retained by the Deptt. of Law, and utilized for the purpose and in the manner as prescribed by the regulations in this regard)</td>
</tr>
<tr>
<td>22.</td>
<td>Student Insurance Fee</td>
<td>Rs. 50 (To be deposited in the Univ. Chest)</td>
</tr>
<tr>
<td>23.</td>
<td>Smart Card Fee</td>
<td>Rs. 60 (To be deposited in the Dhanvantri Library)</td>
</tr>
<tr>
<td>24.</td>
<td>Supervising Practice Fee for admission to MA Education</td>
<td>Rs. 440 (To be remitted to the Deptt. of Education)</td>
</tr>
<tr>
<td>25.</td>
<td>Examination Development Fund</td>
<td>Rs. 130 (To be remitted to the Controller of Examinations)</td>
</tr>
<tr>
<td>26.</td>
<td>Prospectus-cum-Brochure</td>
<td>Rs. 250 (To be deposited in the Univ. Chest)</td>
</tr>
</tbody>
</table>
| 27.   | Digiilization and Networking Fund                                            | a). Rs. 190/- to be realized from each student at the time of seeking admission in any of the professional courses being run by the Non-Govt. Colleges affiliated with the University  
b). Rs. 100/- to be realized from each student of all the Govt. Colleges at the time of admission every year |
| 28.   | Examination Maintenance Fund                                                 | Rs. 60 (Rs. 25/- as maintenance of service fee & Rs. 35/- as desk fee) -To be retained by the Controller of Examinations |
| 29.   | Service Charges                                                              | 3% of the total fee (less Rs. 640/- realized as Corpus Fund deposited by Students admitted in Non-Govt. College for various |
### Courses of the Univ. to be deposited by the Non-Govt. College/s every year

<table>
<thead>
<tr>
<th>课程号</th>
<th>外国学生费/海外校区费用*</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.</td>
<td>1. US $ 1100 (for regular)</td>
</tr>
<tr>
<td></td>
<td>2. US $ 1250 (for private)</td>
</tr>
</tbody>
</table>

*Foreign students fee shall be charged from the candidate at the time of admission, in addition to the normal fee and this fee be utilized on the lines of the Self Financing seat fee fund.

### B. DEPOSITS (REFUNDABLE)

<table>
<thead>
<tr>
<th>存款号</th>
<th>内容</th>
<th>金额</th>
</tr>
</thead>
<tbody>
<tr>
<td>31.</td>
<td>实验室押金</td>
<td>Rs. 400 (To be retained in the Deptt.)</td>
</tr>
<tr>
<td>32.</td>
<td>图书馆押金</td>
<td>Rs. 400 (to be retained in the Deptt.)</td>
</tr>
</tbody>
</table>

由于系部的候选 ppl，被录取到家庭科学系的候选人每年每学期应缴纳 Rs. 250/- 作为教学实习费。

### C. LATE FEE & APPEAL CHARGES ETC.

<table>
<thead>
<tr>
<th>序号</th>
<th>内容</th>
<th>金额</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>投诉表成本</td>
<td>Rs. 30</td>
</tr>
<tr>
<td>2.</td>
<td>提交投诉费用</td>
<td>Rs. 220</td>
</tr>
<tr>
<td>3.</td>
<td>申请表的截止日期为3天后，按照目的收取的滞纳金</td>
<td>Rs. 60 (Draft Addressed to Dean Academic Affairs, Univ. of Jammu, ‘Head Service Charges’).</td>
</tr>
<tr>
<td>4.</td>
<td>续期注册费</td>
<td>Rs. 110 per semester</td>
</tr>
</tbody>
</table>

### NOTE:

1. **Blind and Physically handicapped candidates as defined in the statutes shall be exempted from payment of all the fees including charges for supervision and amanuensis.**

2. **Admission fee and other charges in case of affiliated Colleges and Self Financing courses shall be governed by their respective regulations issued by the University / State Govt. in this regard.**

3. **In respect of admission to the CAMPUSES / AFFILIATED COLLEGES, The Nodal Departments for the admission shall charge the university fee and remaining fee (if any) shall be charged directly by the respective institutes/colleges.**
## AMOUNT OF FEE TO BE REALIZED FROM THE STUDENT ADMITTED AGAINST SELF FINANCING SEATS

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of the Programme</th>
<th>Amount (In Rupees)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>M.C.A: Computer Science &amp; IT</td>
<td>3.00 lacs</td>
</tr>
<tr>
<td>2.</td>
<td>M.Sc(II)- Kishwar Campus of Univ. of Jammu</td>
<td>1.00 lac</td>
</tr>
<tr>
<td>3.</td>
<td>M.Sc: Physics, Electronics</td>
<td>1.50 lacs</td>
</tr>
<tr>
<td>4.</td>
<td>M.Sc.: Botany, Zoology, Chemistry</td>
<td>2.00 lacs</td>
</tr>
<tr>
<td>5.</td>
<td>M.Sc: Environmental Science</td>
<td>2.00 lacs</td>
</tr>
<tr>
<td>6.</td>
<td>LL.B: 3 years</td>
<td>1.00 lac</td>
</tr>
<tr>
<td>7.</td>
<td>M.Sc/M.A.: Home Science (CRME)/ Human Development</td>
<td>0.60 lac</td>
</tr>
<tr>
<td>8.</td>
<td>M.Sc: Food Science &amp; Technology</td>
<td>0.50 lac</td>
</tr>
<tr>
<td>9.</td>
<td>M.Sc./M.A.: Statistics</td>
<td>0.90 lac</td>
</tr>
<tr>
<td>10.</td>
<td>M.Sc./M.A.: Geography</td>
<td>0.80 lac</td>
</tr>
<tr>
<td>11.</td>
<td>M.Sc/M.A.: Mathematics</td>
<td>1.00 lac</td>
</tr>
<tr>
<td>12.</td>
<td>M.Sc.: Geology</td>
<td>1.00 lac</td>
</tr>
<tr>
<td>13.</td>
<td>M.Com: Commerce</td>
<td>0.65 lac</td>
</tr>
<tr>
<td>14.</td>
<td>M.A.: Sociology, Economics</td>
<td>0.50 lac</td>
</tr>
<tr>
<td>15.</td>
<td>M.A.: Education</td>
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</tr>
<tr>
<td>16.</td>
<td>M.A.: Psychology</td>
<td>1.00 lac</td>
</tr>
<tr>
<td>17.</td>
<td>M.A.: Hindi, Urdu</td>
<td>0.50 lac</td>
</tr>
<tr>
<td>18.</td>
<td>M.A.: English</td>
<td>0.60 lac</td>
</tr>
<tr>
<td>19.</td>
<td>M.A.: Punjabi, Sanskrit, Dogri</td>
<td>0.15 lac</td>
</tr>
<tr>
<td>20.</td>
<td>M.A.: Buddhist Studies</td>
<td>0.20 lac</td>
</tr>
<tr>
<td>21.</td>
<td>M.A.: Kashmiri</td>
<td>0.50 lac</td>
</tr>
<tr>
<td>22.</td>
<td>M.A.: Political Science</td>
<td>0.60 lac</td>
</tr>
<tr>
<td>23.</td>
<td>M.A.: History</td>
<td>0.50 lac</td>
</tr>
<tr>
<td>24.</td>
<td>M.A: Music</td>
<td>0.50 lac</td>
</tr>
<tr>
<td>25.</td>
<td>M.Lib/ B.Lib:</td>
<td>0.30 lac</td>
</tr>
<tr>
<td>26.</td>
<td>M.Ed: Education</td>
<td>0.75 lac</td>
</tr>
<tr>
<td>27.</td>
<td>M.P.Ed: Physical Education</td>
<td>0.30 lac</td>
</tr>
<tr>
<td>28.</td>
<td>B.P.Ed: Physical Education</td>
<td>0.25 lac</td>
</tr>
<tr>
<td>29.</td>
<td>PGDBM: Management</td>
<td>0.25 lac</td>
</tr>
</tbody>
</table>

### Sponsored Seats:
- 1. M.Sc: Biotechnology (NRI Sponsored) | 2.00 lacs
- 2. M.Sc: Environmental Sciences | 1.50 lac per annum

### Self Financing Programmes
- 1. M.Sc: Microbiology, Biochemistry | 2.00 lacs
- 2. M.Sc: Human Genetics | 2.50 lacs
- 3. M.Sc.: Remote Sensing & GIS | 2.00 lacs

**NOTE:**
1) The above amount of fee is subject to change as may be notified from time to time by the University.
2) The payment made against Self Financing seats shall not be refundable.
3) The above mentioned fee excludes the Regular Annual fees & the same shall be charged when admission is granted.

**AFFIDAVIT**
(a) I.............................................. Son/Daughter of ....................................................
...........................................Resident of ....................................... hereby solemnly declare that I have passed/appeared in the final year of my qualifying examination, in the year ..................................................... from the University of ................................... I further declare that I have neither been admitted to any course/programme of study of this University/any other University nor have passed any post graduate examination as a private candidate, after passing my graduation examination in the previous year, except as provided in explanation (i) of Statute 15 of the Statutes governing admissions to the University of Jammu. The above statement made by me is true to the best of my knowledge and belief and in the event of this having been proved otherwise, my admission shall stand automatically cancelled besides any other action that may be taken against me under law for my civil or criminal liability.

(b) I further hereby solemnly declare that I was not involved in any criminal / antisocial activities prior to submission of this application form.

DEPONENT

*For candidates applying for admission after a lapse of time following graduation.

APPENDIX —V

AFFIDAVIT
(For Candidates Seeking Admission under Reserved Category)

(A) I.............................................. Son/Daughter of............................................................ Resident of............................................................. hereby solemnly declare that I am seeking admission to the course/programme of study namely................................. in the Department of ............................. University of Jammu on the basis of ........................................... Reserved Category. I further declare that Reserved Category Certificate submitted by me is genuine and in the event of this having been proved otherwise, my admission shall stand automatically cancelled, besides any other action may be taken against me under law for my civil or criminal liability.

(B) I further hereby solemnly declare that I was not involve in any criminal/antisocial activities prior to the submission of application form.

DEPONENT

APPENDIX — VI

VI (a). FORM OF CERTIFICATE TO BE PRODUCED BY A CANDIDATE BELONGING TO SCHEDULED CASTE IN SUPPORT OF HIS/HER CLAIM
This is to certify that Mr./Ms./Mrs.............................................Son/Daughter of
..................................................of Village/Town...............................District/Division.....................of the
State................................belongs to the ....................... Caste which is recognised as Scheduled Caste under the

SIGNATURE.....................
DESIGNATION.....................
(with seal of the Officer)
(Competent authority for issuing of Certificate is
Revenue Officer not below the rank of Tehsildar)

Date.........................

APPENDIX —VI

VI. (b) FORM OF CERTIFICATE TO BE PRODUCED BY A CANDIDATE BELONGING TO
SCHEDULED TRIBES IN SUPPORT OF HIS/HER CLAIM
This is to certify that………………………………………………………………….Son/Daughter of
………………………………………. of Village/Town………………………District/Division……………… of the
State……………………belong to the………………………. Tribes which is specified as a Scheduled Tribes under
the constitution (Jammu & Kashmir) Scheduled Tribes Order, 1989 as amended from time to time.

SIGNATURE……………………
DESIGNATION…………………..
(with seal of the Officer)
(Competent authority for issuing of Certificate is
Revenue Officer not below the rank of Tehsildar)

Date……………………………

APPENDIX —VI

VI. (c). CERTIFICATE OF BEING A MEMBER OF THE SOCIA LLY AND EDUCATIONALLY
BACKWARD CLASS

This is to certify that Mr./Ms./Mrs……………………………………………………………. Son/Daughter of
………………………………………. of Village/Town………………………District/Division……………… of the
State.........................belongs to the ........................ is a member of the Socially and Educationally Backward Class, falling under the category:

i) Resident of Backward Areas;

ii) Resident of area adjoining Line of Actual Control;

iii) Weak and Under privileged class (Social Caste)

This is also certified that the said Mr./Ms./Mrs. .................................(on behalf of applicant) submitted his application for grant of this certificate to this Office on ......................... and the certificate has been delivered to him under my hand and seal today on the ..........................

SIGNATURE..............................
DESIGNATION..........................
Name in Block Letters..............................
..............................
Authorised Officer
(with seal)
*(Competent authority for issuing of Certificate is Revenue Officer not below the rank of Tehsildar)

* No certificate other than the competent authority shall be entertained/ considered.

APPENDIX — VI

VI. (d). CERTIFICATE TO BEING CHILD OF DEFENCE PERSONNEL

This is to certify that Mr./Ms./Mrs. .................................Son/Daughter of ............................. of Village/Town..........................District/Division.......................... of the State..........................serving or has served as member of Army/Navy/Air Force.
APPENDIX — VI

VI (e). CERTIFICATE TO BEING AN EX-SERVICEMAN

This is to certify that Mr./Ms./Mrs.………………………………………………………………………………………………………………
……………………………… Son/Daughter of ……………………………… of Village/Town………………………… District/Division……………… of the State………………………… is an ex-serviceman of
the…………………… Force and has been honourably discharged from the service of the said Force on……………………………………

Signature of the Authorised Officer
AFFIDAVIT
(For All Candidates)

I............................................................Son/Daughter of
.............................................................................Resident of............... ...................................................... have
solemnly declare that -

a) I have passed/appeared in the final year of my last qualifying examination from.........................

b) I have gone through the contents of the Brochure-cum-Application Form, published by the University of
Jammu and read the Statutes thoroughly. I shall abide by the instructions mentioned therein.

c) I have personally filled in the Admission Form.

d) I shall attend the Department concerned as per the schedule to be notified separately by the University
of Jammu.

e) If I fail to attend the Department concerned as per the notified date, I shall automatically lose the right
of admission to the course / courses for which I have applied.

f) I have not been debarred/disqualified by the University of Jammu or any other University.

g) I have applied for admission in open category/reserved category/payment seat category (mention
whichever are applicable)
   1. ________________
   2. ________________
   3. ________________
I declare that the certificates submitted by me are genuine and the above statements made by me are true to the best of my knowledge and belief. In the event of this being proved otherwise, my admission shall stand automatically cancelled; besides, I shall be responsible for any other action that may be taken against me under law.

h) I shall not indulge in Ragging: In case of any violation, I shall be liable to any action under law, including cancellation of my admission.

WITNESSES:  
1. 
2.  

DEPONENT

APPENDIX -VIII

LIST OF GAMES/SPORTS WHICH THE UNIVERSITY RECOGNISES/ PARTICIPATES IN AT VARIOUS LEVELS

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Games (Men Section)</th>
<th>S.No.</th>
<th>Games (Women Section)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wrestling</td>
<td>1</td>
<td>Wrestling</td>
</tr>
<tr>
<td>2</td>
<td>Cross Country</td>
<td>2</td>
<td>Cross Country</td>
</tr>
<tr>
<td>3</td>
<td>Swimming</td>
<td>3</td>
<td>Swimming</td>
</tr>
<tr>
<td>4</td>
<td>Judo</td>
<td>4</td>
<td>Judo</td>
</tr>
<tr>
<td>5</td>
<td>Kho-Kho</td>
<td>5</td>
<td>Kho-Kho</td>
</tr>
<tr>
<td>6</td>
<td>Football</td>
<td>6</td>
<td>Football</td>
</tr>
<tr>
<td>7</td>
<td>Kabaddi</td>
<td>7</td>
<td>Kabaddi</td>
</tr>
<tr>
<td>8</td>
<td>Table Tennis</td>
<td>8</td>
<td>Table Tennis</td>
</tr>
<tr>
<td>9</td>
<td>Handball</td>
<td>9</td>
<td>Handball</td>
</tr>
<tr>
<td>10</td>
<td>Cricket</td>
<td>10</td>
<td>Cricket</td>
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<tr>
<td>11</td>
<td>Boxing</td>
<td>11</td>
<td>Boxing</td>
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<tr>
<td>12</td>
<td>Volleyball</td>
<td>12</td>
<td>Volleyball</td>
</tr>
<tr>
<td>13</td>
<td>Basketball</td>
<td>13</td>
<td>Basketball</td>
</tr>
<tr>
<td>14</td>
<td>Weight Lifting</td>
<td>14</td>
<td>Weight Lifting</td>
</tr>
<tr>
<td>15</td>
<td>Hockey</td>
<td>15</td>
<td>Hockey</td>
</tr>
<tr>
<td>16</td>
<td>Tennis</td>
<td>16</td>
<td>Tennis</td>
</tr>
<tr>
<td>17</td>
<td>Yoga</td>
<td>17</td>
<td>Yoga</td>
</tr>
<tr>
<td>18</td>
<td>Chess</td>
<td>18</td>
<td>Chess</td>
</tr>
<tr>
<td>19</td>
<td>Badminton</td>
<td>19</td>
<td>Badminton</td>
</tr>
<tr>
<td>20</td>
<td>Athletics</td>
<td>20</td>
<td>Athletics</td>
</tr>
<tr>
<td>21</td>
<td>Cycling</td>
<td>21</td>
<td>Cycling</td>
</tr>
<tr>
<td>22</td>
<td>Power Lifting &amp; Weight Lifting</td>
<td>22</td>
<td>Power Lifting &amp; Weight Lifting</td>
</tr>
<tr>
<td>23</td>
<td>Rowing</td>
<td>23</td>
<td>Rowing</td>
</tr>
<tr>
<td>24</td>
<td>Squash Rackets</td>
<td>24</td>
<td>Squash Rackets</td>
</tr>
</tbody>
</table>
25. Ball Badminton
26. Soft Ball
27. Shooting
28. Canoeing & Kayaking
29. Archery
30. Koraf Ball
31. Yachting
32. Gymnastics
33. Fencing

(ARTISTIC)
a) Floor Exercises
b) Horizontal Bar
c) Parallel Bar
d) Roman Rings
e) Vaulting Horse
f) Pomelled Horse

RHYTHMIC
a) Ball
b) Club
c) Hoop
d) Ribbon
e) Rope

ANNEXURE - 1

REGULATIONS GOVERNING JAMMU UNIVERSITY ENTRANCE TEST (JUET)

Admission to a programme of study in a teaching department of the University and Affiliated Colleges shall be made on the basis of written objective type Jammu University Entrance Test (JUET) by the Admission Committee of the Department concerned with the approval of the Dean Academic Affairs. The Admission Committee shall consist of members as given in Annexure I (A).

1. Applications for admission to various programmes of study (except M.Phil and Ph.D) in the teaching departments of the University shall be received within fourteen (14) days from the date of the issue of notification of admission by the University. Application forms prescribed by the University, COMPLETE IN ALL RESPECTS, must be submitted to the designated Office ON OR BEFORE THE LAST DATE prescribed by the University for the purpose as per the notification.

NOTE: NO APPLICATION SHALL BE ENTERTAINED BY HAND OR BY POST OR BY COURIER AFTER THE LAST DATE

b) The Schedule and other details of admission for the programmes namely MBA, MBA (H&T), MBA (IB), M.Sc Biotechnology (except NRI/Industrial Sponsored Seats) shall be notified by each of the concerned Department separately after approval of the Dean Academic Affairs.

2. Admission to various Campuses of the University of Jammu:
The 50% of the total number of seats in any programme / subject in all Off-site Campuses shall be reserved for the candidates who are the pass-out of the respective District Colleges and, only, in the event of no such candidate being available for these seats, the same be filled up by students from other areas. In the case of Bhaderwah, this would mean that the students from Colleges belonging to the erstwhile district of Doda and for Poonch Campus, Colleges from both the districts of Poonch and Rajouri will be considered. Candidates interested for seeking admission in the various Campuses of the University of Jammu are advised to obtain the admission form from respective Off-site Campus and submit the same at the designated counters prescribed by the University.

3. Submission of Application Form:
The Candidate should submit Application Form, duly filled in all respects, to the designated office of the University. Candidates need not enclose any document/certificate along-with the application form at the time of applying for Jammu University Entrance Test (JUET). Certificates/documents shall be submitted only at the time of applying to
the concerned Department of the University for which a separate notification shall be issued after the declaration of Jammu University Entrance Test result.

Candidates desirous to be considered under self financing seat, have to deposit a Demand Draft of Rs. 500/- favouring Dean Academic Affairs, University of Jammu, Jammu along with the admission form/s and deposit the same to the designated office of the University

NOTE: Candidates are advised to be very careful while filling up the form/OMR sheet for Jammu University Entrance Test (JUET). Incomplete/incorrect forms are liable to be rejected.

4. Achievement Categories
Eligibility for admission under the categories of Sports, N.C.C., N.S.S./ Bharat Scouts and Guides and Cultural and Literary Activities shall be based on outstanding performance displayed during the 3 year tenure of B.A./B.Sc./B.Com./B.B.A./B.C.A (General Course, 10+2+3 pattern) or a Programme recognised as equivalent there of subject to the conditions laid down in the relevant statutes. Candidates need not enclose any certificate/document pertaining to achievement categories at the time of application for Jammu University Entrance Test (JUET). A separate notification shall be issued subsequently after the declaration of the result of JUET.

5. Certificates required
1. Certificates/documents are required to be submitted only at the time of applying to the concerned University Department/ Affiliated Colleges/ Campuses and, thus, candidates need not enclose any document along with the application form at the time of applying for the Jammu University Entrance Test (JUET).
2. Mere issue of permission to appear in the Jammu University Entrance Test (JUET) will not imply that the candidate has been finally cleared for admission by the University.
3. The University will take up verification of eligibility condition with effect to original documents only after the candidate has qualified the Entrance Test and a separate notification shall be issued subsequently in this regard.
4. A candidate appearing in the final year of the qualifying examination immediately preceding the Academic Session and expecting to fulfill the Statutory requirement can also appear in written objective type Jammu University Entrance Test (JUET).

6. Display of Lists
After the declaration of the result of Jammu University Entrance Test (JUET), candidates shall apply to the concerned Department with all the relevant documents including Entrance Test Score Card. A separate notification shall be issued subsequently after the declaration of the result of JUET. A separate notification shall be issued subsequently after the declaration of the result of JUET.

NOTE:
1. NO SEPARATE INTIMATION REGARDING SELECTION TO A PROGRAMME OF STUDY SHALL BE SENT TO THE APPLICANT. THE CANDIDATES ARE DIRECTED TO REMAIN IN TOUCH WITH THE NOTICE BOARD OF THE CONCERNED DEPARTMENT FOR DAY TO DAY INFORMATION.
2. FOR ADMISSION TO CAMPUSES/ AFFILIATED COLLEGES, CANDIDATE SHALL APPLY TO THE CONCERNED PG DEPARTMENT OF THE UNIVERSITY. THUS THE CONCERNED UNIVERSITY DEPARTMENT SHALL ACT AS NODAL DEPARTMENT FOR ADMISSION TO CAMPUSES/AFFILIATED COLLEGES.

7. Warning
(a) Mere appearance in Jammu University Entrance Test (JUET) doesn’t ensure admission to a programme of study in the University. Each candidate shall ensure that he/she fulfils the Eligibility Criteria and that the particulars furnished in the Admission Form are complete and correct in all respects. In case, it is detected at any stage that a candidate does not fulfil the eligibility criteria and/or has furnished incorrect information or suppressed any material information, his/her candidature will be cancelled and if already admitted, shall be liable to forfeit the benefits accrued there from, besides rustication from the University.
(b) In case the applicant for admission is found to have indulged in ragging in the past or if it is noticed later that he/she has indulged in ragging, admission may be refused or he/she shall be expelled from the educational institution. However, if any incident of ragging comes to the notice of the authority, the concerned student shall be given opportunity to explain and if his/her explanation is not found satisfactory, the authority would expel him / her from the Institution.
12

8. Appeal
In case a candidate, who has deposited his Admission form in time (after the declaration of the result of JUET), has any grievance and feels that the Statutes governing admission have not been adhered to, he/she may make an appeal to the Head of the University Department concerned on the Form prescribed for the purpose and remit the requisite fee latest by the prescribed date, or any other date notified for the purpose. Such an appeal shall be considered by the Appellate Committee. It shall be obligatory for the appellant to appear in person before the Appellate Committee, if called upon to do so. The decision of the Appellate Committee shall be final and binding on such Applicant. Appeal form shall be available from the Assistant Registrar/ Deputy Registrar (Forms & Stationery) on payment of requisite fee.

9. First Preference
A Programme of study in the University where eligibility for admission is on the basis of having passed /appeared in final examination of B.A/ B.Sc/ B.Com/ B.B.A/ B.C.A etc of the University of Jammu or of any other Statutory University; would mean a Degree Programme of Three Years duration after 12 years of School Education under the 10+2+3 pattern, or a Degree programme of two years duration under 10+2+2 pattern and thereafter having passed the Bridge Course of one year duration comprising Part-III of B.A./B.Sc./B.Com. Three Year (General) Course of the University of Jammu.

10. Second Preference
Notwithstanding anything contained in instruction 9 above, a candidate who has passed M.A./M.Sc./M.Com etc examination from the University after having passed B.A./B.Sc./B.Com. examination under the old pattern of 10+2+2 or 10+1+3 shall also be eligible for admission under second preference category to:
(a) a programme where the minimum eligibility condition is pass/appeared in final examination of Three Year Degree (General) Course after 12 years of schooling.
(b) a Masters Degree Programme in an allied subject, if otherwise permissible under Statutes/Regulations of the University. However, admission of a candidate who has already pursued two Master Degree Programmes or a Ph.D/M.Phil Programme is/are not eligible to seek admission on whole time basis.

11. Reserved Category Affidavit
After the declaration of the result of JUET, a candidate seeking admission under a reserved category must submit an affidavit as per specimen given in Annexure-VI duly attested by a Magistrate/Oath Commissioner/Notary to the effect that the category certificate enclosed by him/her is genuine and in the event of this having been proved otherwise, his/her admission shall be cancelled besides any other action that may be taken against him/her under law for his/her Civil or Criminal Liability.

12. Special Affidavit *
After the declaration of the result of JUET, a candidate seeking admission after any period, from the year of his/her having passed B.A./B.Sc./B.Com/B.A./B.C.A.(Final) examination shall submit an affidavit duly attested by a Magistrate/Oath Commissioner/Notary as per specimen given in Annexure-V to the effect that he/she has not been admitted to or has not pursued any other programme of study during the intervening period.
NOTE: Admission in any of the University Department is no assurance for getting admission in the Hostel as the seats in the Hostels are limited.

* For candidates applying for admission after a lapse of one year or more following graduation.

ABOUT JAMMU UNIVERSITY ENTRANCE TEST (JUET).

ii) Admission to the PG Departments of the University of Jammu, Jammu/ Campuses/Affiliated Colleges shall be made on the basis of Entrance Test and Academic Merit of Qualifying Examination. The final merit of a candidate out of 100 shall be calculated by giving a weightage of 70 i.e. marks obtained in the Entrance Test and a weightage of 30 to the percentage of marks obtained in the qualifying examination- the 30 shall be calculated by giving the weightage of 10% each to the percentage of marks in Part I, II & III separately.
NOTE: For admission to the programmes like M.Ed/M.P.Ed/M.Lib.I.Sc etc the weightage of 30 to the percentage of marks obtained in the qualifying examination shall be accorded so as to calculate the academic merit of the candidate.

iii) There shall be 70 objective type questions carrying one (1) mark each for each subject/programme: 60 questions of the concerned subject/programme within the notified syllabus and 10 questions on Logic and Reasoning.

iv) Candidates can apply for appearing in the Entrance Test of a maximum of 5 Programmes. The duration for each paper shall be 75 minutes (ie. One hour and fifteen minutes). The examination shall be spread over 12 days. There shall be 4 subject specific tests on each day spread over two shifts. The schedule shall be as follows:

   a. Shift One
      Paper I (10:00 to 11:15 hrs IST)
      Paper II (12:00 to 13:15 hrs IST)
b. **Shift Two**  
Paper III (14:00 to 15:15 hrs IST)  
Paper IV (16:00 to 17:15 hrs IST)  

v) Every wrong answer shall be awarded **minus (-) 0.33 marks**. The candidate is required to obtain a minimum of 21 marks out of 70 questions for each subject/programme for general category candidates and 17 marks out of 70 for candidates belonging to SC/ST/ST (Residents of Leh & Kargil) category.

vi) If the number of candidates who qualify the Jammu University Entrance Test (JUET) is less than the number of seats in Open Merit or Reserved Categories, relaxation up to 4 marks in the Entrance Test may be allowed by the Hon’ble Vice-Chancellor on the recommendation of the Admission Committee of the concerned Department.

vii) **Centres for Examinations:** There shall be the following Centres for conduct of Jammu University Entrance Test (JUET):

<table>
<thead>
<tr>
<th>i. Bhaderwah</th>
<th>v. Rajouri</th>
</tr>
</thead>
<tbody>
<tr>
<td>ii. Jammu</td>
<td>vi. Reasi</td>
</tr>
<tr>
<td>iii. Kathua</td>
<td>vii. Srinagar</td>
</tr>
<tr>
<td>iv. Poonch</td>
<td>viii. Udhampur</td>
</tr>
</tbody>
</table>

viii) **Fee for the Jammu University Entrance Test (JUET)** to be charged from each candidate shall be as follows:

<table>
<thead>
<tr>
<th>Gen. Category</th>
<th>SC/ST/ST (Leh &amp; Kargil) Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>b) Opting for one programme</td>
<td>Rs. 450/-</td>
</tr>
<tr>
<td>c) Opting for two programmes</td>
<td>Rs. 550/-</td>
</tr>
<tr>
<td>d) Opting for three programmes</td>
<td>Rs. 650/-</td>
</tr>
<tr>
<td>e) Opting for four programmes</td>
<td>Rs. 800/-</td>
</tr>
<tr>
<td>f) Opting for five programmes</td>
<td>Rs. 950/-</td>
</tr>
</tbody>
</table>

*(Demand Draft Addressed to Dean Academic Affairs, University of Jammu, payable at Jammu.)*

ix) Candidates are advised to fill up the OMR Entrance Test Form very carefully. Incomplete/wrong forms shall be rejected and no change can be incorporated after depositing the OMR Entrance Test Form.

x) The Entrance Test (JUET) shall be held for admission to following subjects:


c) **PG DIPLOMA PROGRAMMES:** PG Diploma in Business Management (PGDBM), PG Diploma in Human Rights & Duties Education, PG Diploma in Computer Applications (PGDCA).

d) **UG PROGRAMMES:** Library Science (B.Lib.I.Sc), LL.B (3 Years-Professional), Bachelor in Physical Education (B.P.Ed), B.A. LL.B. 5 Year, BBA (Hotel Management).

e) **Honours Programmes:** B.A English (Honours), B.Com (Honours).

**NOTE:**
1. The programme code for the above mentioned programmes is mentioned at Annexure XII
2. The eligibility criteria for BBA (HM), Honours Programmes & B.A. LL.B (3 Year) shall be 10+2 or equivalent.

xi) Totally blind candidates must arrange amanuensis on their own & should submitted attested copies of certificate issued in accordance with Statute 17 (A) (ii). Moreover attested copies of Marks Card/Certificate and Photo Identity of Amanuensis who should not be qualified more than 10+2, be also submitted to the Superintendent of the Entrance Test Centre.

xii) **PUBLICATION OF ANSWER KEY:** The University shall publish the Answer Key pertaining to JUET- on the University website. Candidates having any doubt with respect to Answer Key/Questions in the JUET can communicate the same to the Office of the Dean Academic Affairs within two days after the publication of Answer Key.

xiii) **DECLARATION OF RESULT:** The result of JUET shall be declared after the approval of the Result Publishing Committee. i.e. Core Committee of JUET. If the need arises, the Result Publishing Committee can moderate the result.
xiv) ADMISSION UNDER SECOND PREFERENCE: If the number of candidates qualifying the JUET- is less than the number of seats available in a particular programme even after relaxation of 4 marks as given in (v) above then the marks secured in an allied programme can be considered for admission in order of merit. However, such candidates shall be admitted under second preference.

### Details of various programmes offered by the University of Jammu, Jammu/ Campuses/ Affiliated Colleges admission to which shall be made through JUET

#### POST GRADUATE PROGRAMMES

<table>
<thead>
<tr>
<th>S.No.</th>
<th>SUBJECTS</th>
<th>INSTITUTION / COLLEGE</th>
<th>DURATION (IN YEARS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Biochemistry (Self Financing Course)</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>2.</td>
<td>Biotechnology (Self sponsored seat)</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>3.</td>
<td>Botany</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>4.</td>
<td>Buddhist studies</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>5.</td>
<td>Chemistry</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>6.</td>
<td>Chemistry</td>
<td>Unit. Degree College, Udhampur</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>7.</td>
<td>Chemistry</td>
<td>Unit. Degree College, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>8.</td>
<td>Computer Sc &amp; IT (MCA)</td>
<td>Ramnagar Campus of Univ. of Jammu</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>9.</td>
<td>Computer Sc &amp; IT (MCA)</td>
<td>Model Institute of Engineering &amp; Technology (MIET), Jammu*</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>10.</td>
<td>Computer Sc &amp; IT (MCA)</td>
<td>Institute of Management Sciences, Jammu*</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>11.</td>
<td>Economics</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>12.</td>
<td>Economics</td>
<td>Udhampur Campus of Univ. of Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>13.</td>
<td>Education</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
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<tr>
<td>14.</td>
<td>Environmental Sciences</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
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<tr>
<td>15.</td>
<td>English</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>16.</td>
<td>English</td>
<td>Bhargava Degree College, Samba*</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>17.</td>
<td>Food Science &amp; Technology</td>
<td>Govt. Women College, Gandhi Nagar, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>18.</td>
<td>Geology</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
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<tr>
<td>19.</td>
<td>Hindi</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>20.</td>
<td>Hindi</td>
<td>Govt. Degree College (Boys) Udhampur</td>
<td>2 (4 Semesters)</td>
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<tr>
<td>21.</td>
<td>History</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>22.</td>
<td>Library &amp; Information Sciences (M.Lib.I.Sc)</td>
<td>University of Jammu, Jammu</td>
<td>1 (2 Semesters)</td>
</tr>
<tr>
<td>23.</td>
<td>Library &amp; Information Science (MCA)</td>
<td>Kishtwar Campus of Univ. of Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>24.</td>
<td>Management</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
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<tr>
<td>25.</td>
<td>Management</td>
<td>Udhampur Campus of Univ. of Jammu</td>
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</tr>
<tr>
<td>26.</td>
<td>Management</td>
<td>Women College Parade, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>27.</td>
<td>Management</td>
<td>Ramnagar Campus of Univ. of Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>28.</td>
<td>Management</td>
<td>Management College of Commerce, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>29.</td>
<td>Management</td>
<td>Government College of Education, Jammu</td>
<td>2 (4 Semesters)</td>
</tr>
<tr>
<td>S. No.</td>
<td>SUBJECTS</td>
<td>INSTITUTION / COLLEGE</td>
<td>DURATION (In Years)</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------</td>
<td>----------------------------------------------------------------</td>
<td>--------------------</td>
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<tr>
<td>1</td>
<td>Lib Sci (B.Lib.)</td>
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<td>1 (2 Semesters)</td>
</tr>
<tr>
<td>2</td>
<td>LL.B (Professional)</td>
<td>University of Jammu, Jammu</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>3</td>
<td>LL.B (Professional)</td>
<td>Dogra Law College, Jammu*</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>4</td>
<td>LL.B (Professional)</td>
<td>KC Law College, Jammu*</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>5</td>
<td>LL.B (Professional)</td>
<td>Jammu Law College, Jammu*</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>6</td>
<td>LL.B (Professional)</td>
<td>The Law School, University of Jammu</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>7</td>
<td>LL.B (Professional)</td>
<td>Dogra Law College, Jammu*</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>8</td>
<td>LL.B (Professional)</td>
<td>Dogra Law College, Jammu*</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>9</td>
<td>LL.B (Professional)</td>
<td>CMH Law College, Jammu*</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>10</td>
<td>LL.B (Professional)</td>
<td>Jammu Law College, Jammu*</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>11</td>
<td>LL.B (Professional)</td>
<td>Ashoka Law College Kathua*</td>
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<tr>
<td>12</td>
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<td>University of Jammu, Jammu</td>
<td>1 (2 Semesters)</td>
</tr>
<tr>
<td>13</td>
<td>BBA (Hotel Management)</td>
<td>School of Hospitality &amp; Tourism Management</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>14</td>
<td>B.Com (Honours)</td>
<td>Udhampur Campus of Univ. of Jammu</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>15</td>
<td>B.Com (Honours)</td>
<td>Govt. SPMR College of Commerce, Jammu</td>
<td>3 (6 Semesters)</td>
</tr>
<tr>
<td>16</td>
<td>B.A English (Honours)</td>
<td>Kathua Campus of Univ. of Jammu</td>
<td>3 (6 Semesters)</td>
</tr>
</tbody>
</table>

P.G. DIPLOMA PROGRAMMES

<table>
<thead>
<tr>
<th>S. No.</th>
<th>SUBJECTS</th>
<th>INSTITUTION / COLLEGE</th>
<th>DURATION (In Years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P.G. DIPM</td>
<td>University of Jammu, Jammu</td>
<td>1 (2 Semesters)</td>
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<td>2</td>
<td>M.Com (Management &amp; Logics)</td>
<td>University of Jammu, Jammu</td>
<td>2 (4 Semesters)</td>
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<td>3</td>
<td>P.G. Human Rights &amp; Gender Education</td>
<td>University of Jammu, Jammu</td>
<td>1 (2 Semesters)</td>
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<tr>
<td>4</td>
<td>P.GDCA</td>
<td>National Institute of Electronics &amp; Information Technology (NIEICT)</td>
<td>1 (2 Semesters)</td>
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</table>

ANNEXURE-II

SYLLABUS FOR JAMMU UNIVERSITY ENTRANCE TEST (JUET) -2012
<table>
<thead>
<tr>
<th>S.No</th>
<th>SUBJECT</th>
<th>PAGE NO.</th>
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<tbody>
<tr>
<td>1.</td>
<td>Biochemistry (Self Financing Course)</td>
<td>2</td>
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<tr>
<td>2.</td>
<td>Biotechnology (NRI/Self Sponsored Seats)</td>
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<tr>
<td>3.</td>
<td>Botany</td>
<td>4-5</td>
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<tr>
<td>4.</td>
<td>Buddhist Studies</td>
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<td>6.</td>
<td>Chemistry</td>
<td>8-9</td>
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<tr>
<td>7.</td>
<td>Computer Science &amp; IT (MCA)</td>
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<td>8.</td>
<td>Commerce</td>
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<td>Dogri</td>
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<td>15.</td>
<td>Food Sc. &amp; Tech.</td>
<td>20-21</td>
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<tr>
<td>16.</td>
<td>Geography</td>
<td>22</td>
</tr>
<tr>
<td>17.</td>
<td>Geology</td>
<td>23</td>
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<tr>
<td>18.</td>
<td>Hindi</td>
<td>24-25</td>
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<tr>
<td>19.</td>
<td>History</td>
<td>26</td>
</tr>
<tr>
<td>20.</td>
<td>Home Science (CRME)/ (Human Dev.)</td>
<td>27-28</td>
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<tr>
<td>21.</td>
<td>Human Genetics (Self Financing Course)</td>
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<td>Information Technology (M.Sc IT)</td>
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<td>28.</td>
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<td>37</td>
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<td>29.</td>
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<td>30.</td>
<td>Physics</td>
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<td>Political Science</td>
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<td>Psychology</td>
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<td>33.</td>
<td>Punjabi</td>
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<td>34.</td>
<td>Remote Sensing &amp; GIS (Self Financing Course)</td>
<td>43</td>
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<td>Sanskrit</td>
<td>44</td>
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<td>36.</td>
<td>Sociology</td>
<td>45</td>
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<td>37.</td>
<td>Statistics</td>
<td>46-47</td>
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<td>38.</td>
<td>Urdu</td>
<td>48</td>
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<td>39.</td>
<td>Zoology</td>
<td>49</td>
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<td>40.</td>
<td>B.Lib Sciences</td>
<td>50</td>
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<td>41.</td>
<td>LL.B (Professional) 3 years</td>
<td>51</td>
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<tr>
<td>42.</td>
<td>PGDBM</td>
<td>52</td>
</tr>
<tr>
<td>43.</td>
<td>PG Diploma in Human Rights &amp; Duties Education</td>
<td>53</td>
</tr>
<tr>
<td>44.</td>
<td>Post Graduate Diploma in Computer Applications (PGDCA)</td>
<td>53</td>
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<tr>
<td></td>
<td>SAMPLE QUESTIONS</td>
<td>54-66</td>
</tr>
</tbody>
</table>
BIOCHEMISTRY

Water and its properties; physicochemical properties of water; Dissociation and association constants, pH, buffers, pI, pKa, solutions, solubility, criteria for solubility, hydrophobicity and hydrophilicity; Dielectric constant; Thermodynamics; free energy, enthalpy and entropy.


Structure of amino acids, Chemical reactions; Structural organization of proteins, primary, secondary, tertiary and quaternary structure of proteins, Protein classification and functions; Biosynthesis and degradation of amino acids; Reduction and assimilation of atmospheric nitrogen.

Lipids and fats, classification of lipids and fatty acids, general structure and functions of major subclasses of lipids-acylglycerol, phosphoglycerides, sphingolipids, glycosphingolipids, terpenes, sterols and steroids; biosynthesis and degradation of fatty acids.

Nucleic acids, structure of nucleosides and nucleotides, biologically important nucleotides and their functions. Biosynthesis and degradation of nucleic acids. Vitamins and hormones; types of vitamins and their deficiency symptoms, steroid and peptide hormones.


History of Enzymology, Enzyme vs chemical catalysts, Nomenclature and classification of enzymes, Enzyme activity, enzyme action, Enzyme substrate complex, Types of enzymes.

Tools in genetic engineering; Restriction enzymes: Polymerases, ligases, kinases, phosphatases, exonucleases, DNase, RNase and Proteinases; Cloning vectors; plasmids, cosmids, Genomic and cDNA libraries, Polymerase chain reaction, DNA sequencing, DNA fingerprinting, molecular markers; Introduction to Bioinformatics.
Plant tissue culture, culture media (White’s and Murashige and Skoog’s); Plant growth regulators (Auxins, Cytokinins and Gibberlins) and their use in plant tissue culture; Initiation and maintenance of callus and suspension cultures; Somatic embryogenesis, Shoot tip culture for production of virus free plants.

Gene transfer in plants using Agrobacterium tumefaciens, vectorless gene transfer; Major genes transferred through genetic engineering; application of Genetic engineering, production of transgenic plants with resistance against herbicides and insects; Golden Rice, Bt cotton.

History and scope of Microbiology, origin of microbes, pure cultures techniques, microbial culture media, sterilization, culture collection, purification and preservation. Principles and applications of microscopy (bright field, darkfield, phase contrast, fluorescence and immunofluorescence, confocal microscopy, electron microscopy).

Classification of bacteria; cultivation and reproduction in bacteria and viruses. Plant, animal and bacterial viruses, Retroviruses. Distribution, classification and reproduction of algae (Fristch) and fungi (Ainsworth). Morphology, motility and reproduction in protozoa.

Industrial products derived from microbes, industrial enzymes, production of antibiotics, vitamins and vaccines. Single cell proteins, biofertilizers, nitrogen fixation. Infectious disease transmission, respiratory diseases caused by bacteria and viruses, tuberculosis, sexually transmitted disease including AIDS.


History of Enzymology, Enzyme vs chemical catalysts, Nomenclature and classification of enzymes, Enzyme activity, enzyme action, Enzyme substrate complex, Types of enzymes.

Tools in genetic engineering; Restriction enzymes: Polymerases, ligases, kinases, phosphatases, exonucleases, DNase, RNase and Proteinases; Cloning vectors; plasmids, cosmids, Genomic and cDNA libraries, Polymerase chain reaction, DNA sequencing, DNA fingerprinting, molecular markers; Introduction to Bioinformatics.

Water and its properties; physicochemical properties of water; Dissociation and association constants, pH, buffers, pI, pKa, solutions, solubility, criteria for solubility, hydrophobic and hydrophilic; Dielectric constant; Thermodynamics; free energy, enthalpy and entropy.

Carbohydrates, structure of mono-, di- and polysaccharides. Glycoproteins, peptidoglycans, lipopolysaccharides; Carbohydrate metabolism- glycolysis, TCA cycle, Electron transport chain, oxidative phosphorylation, pentose phosphate pathway, glyoxylate cycle.

Structure of amino acids, Chemical reactions; Structural organization of proteins, primary, secondary, tertiary and quaternary structure of proteins, Protein classification and functions; Biosynthesis and degradation of amino acids; Reduction and assimilation of atmospheric nitrogen.

Lipids and fats, classification of lipids and fatty acids, general structure and functions of major subclasses of lipids-acylglycerol, phosphoglycerides, sphingolipids, glycosphingolipids, terpenes, sterols and steroids; biosynthesis and degradation of fatty acids.

Nucleic acids, structure of nucleosides and nucleotides, biologically important nucleotides and their functions. Biosynthesis and degradation of nucleic acids. Vitamins and hormones; types of vitamins and their deficiency symptoms, steroid and peptide hormones.
BOTANY

General account of viruses, mycoplasma and cyanobacteria; Structure, nutrition, reproduction and economic importance of bacteria; General characteristics, economic importance and classification of algae (Fritsch 1935, 1945), fungi (Ainsworth, 1971), bryophytes (Smith, 1955) and pteridophytes (Sporne, 1975); Important features of chlorophyceae, xanthophyceae, phaeophyceae and rhodophyceae; Important features of mastotigomycotina, zygomycotina and ascomycotina with emphasis on their life histories; Structure and reproduction in hepaticeae, anthocerotales and musci; Important characteristics, structure and reproduction of psilopsida, lycopsida, sphenopsida and pteropsida.

Ultrastructure and functions of primary cell wall, plasma membrane, E.R, golgi bodies, chloroplasts, mitochondria, ribosomes, nucleolus and nuclear membrane; Physical and chemical structure of chromosomes, centromere, telomere and sex chromosomes. Mitosis and meiosis; Structure and replication of nuclear DNA, Organization of DNA in pro- and eukaryotic genomes; nucleosome model; Genetic code, transcription; regulation of gene expression in prokaryotes and eukaryotes, Protein synthesis, (1D, 2-D and 3-D) structure and function of proteins. Types, effects and detection of intra- and inter-chromosomal alterations (deletions, duplications, inversions and translocations). Types, origin and effect of euploidy and aneuploidy; Spontaneous and induced mutations in pro-and eukaryotes, method s and uses; Transposons-structure and mechanism of transportation; Mendel’s laws of segregation and independent assortment; allelic and non-allelic interactions; Linkage and recombination.

Fossil Gymnosperms– a general account with emphasis on Benettitales; morphology, anatomy and reproduction in Williamsonia and Cycadeoidea; Fossil angiosperms–a general account; Gymnosperms – general characters and diversity; morphology, anatomy, reproduction and life cycle of Pinus and Ephedra; Angiosperms–origin and evolution; characteristic features of some primitive angiosperms with special reference to Magnolia; Classical and modern history of angiosperm taxonomy;

Taxonomic identification: Keys, floras, monographs, reviews; Botanical nomenclature–principles and rules, taxonomic ranks, type concept and principle of priority. Classification of angiosperms; role of anatomy, embryology and cytology in taxonomy; Morphological diversity of families: Ranunculaceae, Brassicaceae, Astraeeae, Fabaceae, Solanaceae, Euphorbiaceae, Liliaceae, Amaryllidaceae and Poaceae; Basic architecture and branching pattern in seed plants.

Structural modifications of roots and shoots – a general account; Factors responsible for dwindling plant diversity & strategies adopted for its conservation; Apical meristems of root and shoot-structure, organization and role. Vascularization of primary root in mono & dicots; Epidermal modifications in mono- & dicots (stomata & trichomes) Vascular cambium and its derivatives, their role in translocation of water, minerals & food. Secondary growth – a general account, growth rings, heartwood, sapwood; periderm. Leaf- origin, development and vascularisation, senescence and abscission;Flower-structure, development & functions, micro- and megasporogeneses, micro- and megagametogeneses. Pollination types, attractants and rewards for pollinators, Pollen-pistil interaction, self incompatibility, Double fertilization, embryo & endosperm development, Formation of fruit and seed, Seed dormancy, types and importance; seed dispersal and seed germination, Propagation by vegetative means & importance; Morphological, anatomical and physiological responses of plants to water (hydro- and xerophytes), light (photoperiodism, helio- and sciophytes) and temperature (thermoperiodicity and vernalization).
Enzymes- discovery, nomenclature and characteristics, concept of holoenzymes, apoenzyme, co-enzyme and co-factors; Water-physical properties and importance to plant life, diffusion, osmosis, transport of water through xylem, transpiration; mechanism of opening and closing of stomata; Macro- and micro elements, Importance of mineral nutrients to the plant and their role, deficiency and toxicity symptoms. Photosynthesis– Importance, pigments, action spectra, enhancement effect, photosynthesis I & II, Z-scheme, calvin, C4 and CAM pathway and photorespiration; Respiration – aerobic and anaerobic, kreb’s cycle; Recombinant DNA Technology- tools, techniques and uses; gene cloning, restriction endonucleases, gel electrophoresis, Southern blotting, vectors; Basic concept of Plant Tissue Culture, cellular totipotency, differentiation and morphogenesis.

Soil structure, profile, development and composition; Global warming and Climate change; Structure and composition of ecosystems; food chain, food web, ecological pyramids and energy flow; Community and population ecology: Characteristics, growth curves and Succession. Utilization of food (Wheat, maize, potato), fibres (Cotton and Jute), beverages (tea and coffee), spices (Asafoetida, Cumin, fennel, cloves, cinnamon, cardamom, coriander), Vegetable oils (groundnut, mustard and coconut) yielding plants. Medicinal plants of J&K - general account.
BUDDHIST STUDIES

1. Life of the Gautama Buddha Birth, Renunciation, Enlightenment and Mahaparinirvana

2. Buddhist Councils
   a. First Buddhist Council
   b. Second Buddhist Council
   c. Third Buddhist Council
   d. Fourth Buddhist Council

3. Four Noble Truths

4. Eightfold Noble Paths

5. Three characteristics of Phenomena
   Sufferings
   No Soul

6. Royal Patronage of Buddhism
   Ashoka
   Munander

7. Kanishka

8. Seats of Buddhist Learning
   Nalanda Mahavihara
   Vikramshila Mahavihara
   Valabhi Mahavihara

9. Buddhist Stupas, Monasteries and Caves
   Sanchi Stupa
   Dhamekh Stupa
   Hemis Monastery
   Alchi Monastery
   Ajanta Caves
   Ellora Caves

10. Countries of Buddhist Faith
    Countries of Hinayani Faith
    Countries of Mahayan Faith

11. Prominent Chinese Travelers.
    Fa-hein
    Hieun-tsang
    I-tsing
**B.P.Ed (PHYSICAL EDUCATION)**

1. History of Sports
2. Sports Aptitude
3. General Knowledge of Different Games/ Sports
CHEMISTRY

Physical Chemistry


Inorganic Chemistry

Chemical bonding: VSEPR theory, valence bond theory and hybridization models, MO theory, multicenter bonding, percentage ionic character from dipole moment and electronegativity difference. Ionic structures, radius ratio rule, lattice defects, semiconductors, lattice energy and Born-Haber cycle, solvation energy and solubility of ionic solids, Fajan’s rule, metallic bond, weak interactions. Chemistry of elements of transition series: General characteristics,
comparative study of 3d, 4d and 5d transition elements in respect of ionic radii, oxidation states, magnetic behavior, spectral properties and stereochemistry. Werner’s theory, nomenclature and isomerism in coordination compounds, crystal-field theory. **Hard and soft acids and bases (HSAB):** Classification of acids and bases hard and soft. Pearson’s HSAB concept. Symbiosis, theoretical basis of hardness and softness, electronegativity and hardness and softness. **Thermodynamic and kinetic aspects of metal complexes:** Thermodynamic stability of metal complexes and factors affecting the stability, substitution reactions of square planer complexes. **Magnetic properties of transition metal complexes:** Types of magnetic behavior, methods of determining magnetic susceptibility, L-S coupling, application of magnetic moment data for metal complexes. **Organometallic Chemistry:** Definition, nomenclature and classification of organometallic compounds. Preparation, properties, bonding of metal-alkyls, metal-alkene complexes, homogeneous hydrogenation, metal carboxyls. **Bioinorganic Chemistry:** Essential and trace elements in biological processes, metalloporphyrins with special reference to haemoglobin and myoglobin. Biological role of alkaline earth metal ions. Nitrogen fixation.

**Organic Chemistry**

**Structure and Bonding:** Charge transfer complexes, resonance, hyperconjugation, aromaticity, inductive and field effects, hydrogen bonding. **Reactive intermediates:** Carbocations, carbanions, free radicals, carbenes (with examples). **Optical isomerism:** Elements of symmetry, Enantiomers, diastereomers, relative and absolute configuration. **Geometrical isomerism:** E & Z system of nomenclature. **Alkenes:** The Saytzeff rules, Hofmann elimination, relative stabilities, electrophilic and free-radical addition, Markownikoff’s rule, hydroborations-oxidation. **Alkanes:** Isomerism in alkanes, methods of formation Wurtz reaction, Kolbe reaction, Corey House reaction and decarboxylation of carboxylic acids). **Aromatic electrophilic substitution:** general pattern of the mechanism, role of σ and π-complexes. Mechanism of nitration, halogenation, sulphonation, Friedel-Crafts reaction. Activating and deactivating substituents, orientation and ortho/para ratio. **Nucleophillic substitution:** S$_{N}$2 and S$_{N}$1 reactions. **Spectroscopy:** IR, Intensity and position of IR bands, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. **$^{1}$H-NMR:** nuclear shielding and deshielding, chemical shift and molecular structure, spin-spin splitting and coupling constants, PMR spectra of ethyl bromide, ethanol, acetaldehyde, 1,1,2-tribromoethane, ethyl acetate, toluene and acetonophenone. **Monohydric alcohols:** formation by reduction of aldehydes, ketones, carboxylic acids and esters. **Dihydric alcohols:** oxidative cleavage [Pb(OAc)$_{4}$ and HIO$_{4}$] and Pinacol-Pinacolone rearrangement. **Phenols:** Reimer Tiemann reaction, Fries rearrangement. **Carbonyl compounds:** Nucleophilic addition to carbonyl group, Benzoin, Aldol, Perkin and Knoevenagel condensations. Baeyer-Villiger oxidation, Cannizzaro reaction, Wolff-Kishner, LiAlH$_{4}$ reduction. Relative stability of acyl derivatives. Interconversion of acid derivatives. Preparation of carboxylic acid derivatives, Chemical reactions. **Carbonyl enolates:** Alkylation of diethyl malonate and ethyl acetoacetate. Claisen condensation. Keto-enol tautomerism. **Grignard reagents:** formation, structure and chemical reactions. **Amino acids:** classification, structure and stereochemistry, acid base behavior, isoelectric point and electrophoresis. **Heterocyclic Compounds:** synthesis, aromatic characteristics of pyrrole, furan, thiophene and pyridine and their electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine. Comparison of basicity of pyridine, piperidine and pyrrole. **Carbohydrates:** Monosaccharides, Mechanism of osazone formation, interconversion of glucose and fructose, chain lengthening and chain shortening of aldoses. **Synthetic Polymers:** addition or chain-growth polymerization, Ziegler-Natta polymerization and vinyl polymers. Condensation or step growth polymerization.
# COMPUTER SCIENCE AND IT (MCA)

1. **(A) Series-Numeric and Alphabetic**
   - (B) Logical Reasoning  
   - 35%

2. **English- Synonyms, Antonyms, Identification of Grammatical Errors etc**
   - 15%

3. **Arithmetic including Percentage, Interest, Profit and Loss, Time and Work, Height and Distance, Stock and Shares, Ratio and proportion, Average, Fraction etc. and Mathematics Covering Trigonometry, Geometry, Algebra, Calculus etc.**
   - 50%

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COMMERCE

Accounting
Accounting ratios: Liquidity, efficiency, profitability & solvency; Components and preparation of cash flow statement; Break even analysis; Profit-volume ratio; Methods of inventory valuation; Cost classification; Overheads classification; Normal Vs abnormal loss; Labour rate methods; Process costing; Joint product & by product process costing.

Taxation
Direct and indirect tax systems: Canons of taxation; Merits and demerits of direct & indirect taxes; Exempted incomes; Salary income and tax liability; Various types of allowances & perquisites: Concept of VAT

Auditing
Rights, duties, powers and liabilities of company’s auditor; Qualification & qualities of company auditor; Vouching: Meaning & types; Auditors report : Qualified and unqualified; Investigation: Meaning and need; Audit Vs Investigation.

Business Laws
Bailment and pledge; Contract of agency; Negotiable instruments; Memorandum of association and Articles of associations; Formation & winding up of companies; Various types of shares & debentures

Money and Financial System
Types of financial markets: Money and capital markets; On line banking; Various types of investors.

Economics and Statistics
Micro Vs Macro economics; Cardinal Vs Ordinal approach; Introduction to various markets based upon competition: Monopoly & monopolistic; Dispersion: Range, mean deviation & standard deviation; Correlation & regression analysis; Types & methods of constructing index numbers.

Management
Taylor’s Scientific management; Henry Fayol’s managerial philosophy; System Vs contingency approach; Functions of management; Concept of delegation; Accountability and responsibility.
DOGRI

• Sheeraza Dogri Ghazal Ank No. 147 (Prescribed Poets: Prof. Ram Nath Shashtri, Dr. Jitendra Udhampuri, Darshan Dharshi, Mohan Singh, Virender Kesar, Prof. Champa Sharma, Ashwini Magotra, Padam Dev Nirdosh, Vijay Verma), Sheeraza Dogri No. 168 (Talmian Dogri Kavitan Part-I& II), Sheeraza Dogri No.154 (Chonamen Dogri Nibandh Vishesh Ank, Part-I & II) and Sarha Sahitya-1997 Ekanki Ank published by J&K Academy of Art, Culture and Languages, Jammu.

• Bawa Jitte by Prof. R.N. Shastri, Trutti Di Dor by Sh. Ved Rahi, Dogri Sahitya Charcha by Prof. Laxmi Narayan and Katha Kunj Bhag-II published by Dogri Sanstha, Jammu

• History of Dogri Poetry, Short Story and Drama upto 1980 (Book prescribed: Dogri Sahitya Da Itihas by Shiv Nath) and History of Dogri Novel (Book prescribed: Dogri Sahitya Da Itihas by Shiv Nath), published by Sahitya Akademi, New Delhi.

• Matterean by Inderjeet Kesar published by Jai Mata Parkashan, 2-P, Sector-3, Chhanni Himmat, Jammu.
ECONOMICS

Micro Economics
- Theory of demand
- Theory of production
- Market structure
- Factor pricing
- Welfare economics

Indian Economy
- Indian Economy at the time of Independence
- Structure of the Indian economy and planning
- Agriculture in India
- Industrial development in India

Macro Economics
- National Income and Social Accounts.
- Output and employment
- Financial markets and rate of interest
- Trade cycles
- Macro economic policy and inflation

Money, Banking and Public Finance
- Money and theories of money
- Commercial banking and central banking
- Nature and scope of public finance
- Taxation
- Public debt and financial administration

International Economics
- Importance of trade and trade theories
- Gains from trade
- Tariffs and quotes
- Balance of payments and International Institutions
- Foreign trade in India

Development and Environmental Economics
- Development and economic Growth
- Economic development, population and Institution
- Sectoral view of development
- International aspects of economic development
- Environment and ecology
EDUCATION

Psychology and Education: Meaning of: i) Education ii) Psychology iii) Educational Psychology, Relationship between Education and Psychology. Difference between Psychology and Educational Psychology.

Theories of Learning – Thorndike’s Trial and Error Theory – Concept, Experiment, Laws of Learning based on the theory. Educational implications of the theory.

Gestalt Theory of Learning by Wolfgang Kohler, Concept, Experiment, Educational Implications.

Intelligence: Meaning and Definition of Intelligence.

Two Factor Theory by Charles Spearman, Description of the Theory, Characteristics, ‘g’ factor and ‘s’ factor, Educational Implications of the Theory.

Primary Mental Abilities Theory by LL Thurstone: Description of the Theory, Educational Implications of the Theory.

Intelligence Tests: Concept of Intelligence Tests, Uses of Intelligence Tests. Concepts of I.Q (Intelligence Quotient) MA (Mental Age) and CA (Choronological Age) Classification of I.Q. given by L.M. Terman.

Memory and Forgetting: Meaning and Definitions of Memory and Forgetting

Components of Memory: Learning, Retention, Recall and Recognition.

Types of Memory, Signs of good Memory, Methods of memorizing, Factors responsible for causing Forgetting.

Measure of Central Tendency: Concepts of Mean, Median and Mode, Computation of Mean, Median and Mode of grouped and ungrouped data. Uses of Various Measures of Central Tendency in Educational situations.

Education: Concept, Aims and Agencies.

Concept of Education: Functions of Education: Preservation, Transmission and Enrichment.

Aims of Education

Concept of Aims, Individual Aim, Social Aim, Individual Vs Social Aim.

Agencies of Education

Concept of Agencies of Education, Family, Home and School as major agencies imparting education in a society.

Curriculum and its Development

Curriculum: Meaning and Definitions.

Types of Curricula: Subject Centred, Learner Centred.

Basic Principles of Curriculum Construction.

Curricular and Co-curricular Activities:

Concepts and Types of Co-Curricular Activities, Importance of Organizing Co-curricular Activities in Educational institutions.

Education and Social Change: Meaning and Definitions of Social Change, Factors responsible for bringing about social change, Role of Education.

Education and National Integration:– Concept of National and Emotional Integration,

Barriers in way of achieving National Integration, Role of Education in Promoting National Integration.

Methods of Studying Human Behaviour

Introspection: Meaning and definitions, process involved in introspection, merits and limitations of the method.

Observation: Meaning and Definitions, Types: Controlled and Uncontrolled, steps involved during observation, merits and limitations.

Experimental:– Meaning and definitions, characteristics, steps involved in experimental method, merits and limitations.

Gifted and Creative Children

Meaning and definitions, difference between gifted and creative children.

Characteristics of gifted children, identification of gifted children, educational provisions for the gifted children.

Mentally Retarded children

Concept of mental retardation, causes of mental retardation, educational provisions for mentally retarded children

Motivation and Adjustment

Concept: Types of motivation (intrinsic and extrinsic) Bases of motivation –needs (physiological and psychological) and drives.

Personality

Concept, Development of Personality, Types of Personality, Assessment of Personality: Subjective Techniques (Anecdotes, Autobiography, Case Study, Projective Techniques
Elementary Education: Concept, objectives of elementary education. Concept of Universalization of Elementary Education (UEE), Promotion of UEE through SarvShiksha Abhiyan (SSA)

Secondary Education: Concept, Objectives of secondary education, Organizational Pattern as suggested by Kothari Commission of Education (1964-66) and National Policy on Education 1986, Main problems of secondary education and remedial measures to solve these problems.

Higher Education: Concept, objectives of higher education as per National Policy on Education. Problems being faced in higher education with emphasis on problem of Selective Admission, Autonomy & Examination and their remedial measures.

Women Education: Concept of women education, Need for prioritizing women education, Problems of women education and suggestive remedial measures.


Educational Technology: Concept of Educational Technology, Various approaches to implement educational technology towards Quality Education, Role of ICT in Education.

Teacher Education: Concept of teacher education, objectives of teacher education in India. Problems of teacher education, Role of NCTE in improving the Quality of teacher education in India.

Idealism: Concept, Salient Features of Idealisms with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Pragmatism: Concept, Salient Features of Pragmatism with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Naturalism: Concept, Salient Features of Naturalism with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.


Community and Education: Meaning of Community, Role of Education for upliftment of Community, Mass Media as a Social Means of Education.

Education and Culture: Concept of Culture, Features of Indian Culture, Relation between Education and Culture.

Inclusive Education: Meaning, Scope and Role of Inclusive Education.

Vedic Education: Meaning of Vedas, Aims of Education, Curriculum and Organization, Yoga- Meaning and Importance of Yoga Philosophy.

Buddhist Education: Aims of Education, Curriculum, Women Education, Qualities and Duties of Teachers.

Islamic Education: Salient Features, Aims, Process of Education and curriculum with Reference to Maktabs and Madrasas, Islamic Centres of Higher Education at Delhi, Agra, Jaunpur and Bihar.

ELECTRONICS

Network analysis: Kirchoff’s laws, Source transformation, Mesh and Nodal analysis, Star delta transformation, Thevenin’s, Norton’s and Maximum power transfer theorem; Transient analysis of RC, RL, RLC circuit using differential equations and Laplace transform, Series and Parallel resonance; Filters: Fundamentals, constant k & m derived filters; PN-junction diode equation and equivalent circuit, Rectifiers, Zener diode, LED, Solar cell, Tunnel and Varactor diode; Bipolar junction transistor (configurations, biasing and small signal analysis using h parameters); UJT, FET and MOSFET (construction, working, and characteristics); Oscillators (Barkhausen criteria, Phase shift, Wein bridge and Crystal oscillators); Effects of voltage series feedback.

Basic PMMC movement and its use for voltage & current measurement, AC voltmeter, Electronic multimeter, Digital voltmeters, Q meter); CRO (block diagram, working, and applications); Transducers (photoelectric, piezoelectric, potentiometric, strain gauges, thermocouples, thermistors); Op-amp: ac and dc characteristics, closed loop configurations and applications (integrator, differentiator, voltage to current converter, current to voltage converter, summer, subtractor, and comparators) ; 555 timer; Logic gates and their families( TTL and CMOS); Boolean algebra, K-maps upto 4 variables, half and full adders; subtractors; parity checkers; magnitude comparators; decoders; and encoders; sequential circuits (flip-flops, registers, and counters); memories (ROM: PROM, EPROM, and EEPROM; RAM); A/D and D/A converters.

Propagation of waves (free space, tropospheric, and ionospheric propagation); surface waves; antennas (equivalent circuits, radiation fields, polarization, ionospheric radiation, power gain of Hertizian dipole, grounded, and ungrounded antennas); analog modulation and demodulation (amplitude and frequency ); digital modulation (pulse amplitude, pulse width, pulse position, pulse code modulation); fibre optic communications (introduction, principles, and advantages); satellite communication (introduction, orbits, station keeping, satellite altitude, transmission path, path loss, and noise considerations); principle of TV communication ( TV systems and standards, scanning and blanking pulses, composite video signal). 8085 microprocessor architecture (address bus, data bus, control bus, and registers, internal data operations, externally initiated operations, de-multiplexing AD7-AD0, generating control signals, op-code fetch, memory read, and memory write); 8085 programming (instruction classification, instruction formats, addressing modes, data transfer instructions, arithmetic operations, logic operations, branch operations, looping, 16-bit arithmetic instructions, logic operations, counters and time delays); interfacing devices (8255, 8253 and 8279); C programming: data types, operators, data input and output statements, functions, arrays, pointers, structures and unions.
UNIT-I : THE LIVING WORLD

Nature and scope of Biology: its relation with other sciences, techniques and instruments, why to study Biology, scientific method. Being alive: What does it mean? Present approach to understand life process; molecular approach; life as an expression of energy; steady state and homeostasis; self duplication and survival; adaptation; death as a positive part of life; an attempt to define life in the light of the above. Origin of life, evolution and its maintenance; the positive and negative aspects of progress in biological sciences. The future of living world, identification of human responsibility in shaping our future.

UNIT-II : DIVERSITY OF LIFE

Introduction. The enormous variety of living things, the need for classification to cope with this variety: taxonomy and phylogeny; the meanings of a five kingdom classification—monera, protista, plantae, fungi and animalia. The basic features of five kingdom classification; concept of species, taxon and categories - hierarchical levels of classification; binomial nomenclature, principles of classification and nomenclature; Salient features/importance and lifestyle of kingdom monera (archaebacteria, actinomycetes, cyanobacteria); protista (photosynthetic protista, slinemould and protozoan protista); fungi (zygomyctes; ascomycetes, basidiomycetes; Lichens & mycorrhizae); plantae (algae, bryophytes, pteridophytes, gymnosperms, angiosperms); animalia (porifera, coelenterata, helminths, annelids, mollusca, arthropoda, echinoderms; chordate)

UNIT - III : NATURAL RESOURCES

UNIT - IV : COMMUNITY AND ECOSYSTEMS

Population: interaction between environment and population, Biotic community: interaction between different species, biotic stability. Concept of an ecosystem, structure & function of an ecosystem, producers, consumers & decomposers, energy flow in the ecosystem, ecological succession, food chains & food webs, ecological pyramids. Types, characteristic features, structure & function of the - forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).

UNIT - V : BIODIVERSITY AND ITS CONSERVATION

Introduction: definition: genetic, species & ecosystem diversity; Biogeographical classification of India; value of biodiversity: consumptive use, social, ethical, aesthetic & option values; biodiversity at global, national & local levels; India as a mega-diversity nation; hot-spots of biodiversity; threats to biodiversity - habitat loss, poaching of wildlife, man-wildlife conflicts. Endangered & endemic species of India; conservation of biodiversity: In situ & Ex-situ conservation of biodiversity.

UNIT - VI : ENVIRONMENTAL POLLUTION

Definition, causes, effects & control measures of: air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution, nuclear hazards; Solid waste management: causes, effects & control measures of urban & industrial wastes; role of an individual in prevention of pollution; Disaster management: floods, earthquake, cyclones & landslides.

UNIT - VII : SOCIAL ISSUES AND THE ENVIRONMENT


UNIT-VIII : APPLICATION OF BIOLOGY

**ENGLISH**

History of English Literature (from Elizabethan period to Twentieth Century with special focus on the writers prescribed in the syllabus of Entrance Test)

**Literary Terms:**


ii) Figures of speech – Simile, Hyperbole, Oxymoron, Synecdoche, Personification.

**Drama:**

i) *Macbeth* by Shakespeare

ii) *Doll’s House* by Ibsen

**Prose and Fiction:**

a) Prose - i) Bacon : Of Studies

ii) Joseph Addison : Exercise of Fans

iii) Charles Lamb : Chimney Sweepers

b) Fiction - *Jane Eyre* by Charlotte Bronte

**Poetry:**

i) John Milton : Satan’s Speech

ii) Andrew Marvel : To his Coy Mistress

iii) John Keats : Ode to Autumn

iv) William Wordsworth : Ode to Duty

V) T. S. Eliot : Journey of the Magi

vi) Wilfred Owen : Strange Meeting.
• Definition of nutrition, nutrients, Malnutrition, Inter-relationship between nutrition and health. Basic five food groups and how to use food guide.
• Water as a nutrient, function, sources, requirement. Water balance-effect of deficiency.
• Moisture in foods, hydrogen bonding, bound water, water activity and food stability.
• Energy- units of energy, food as a source of energy. Recommended dietary allowances. B.M.R activities. Utilization of food for energy requirements.
• Acid-base balance.
• Carbohydrates:-classification, structure, properties, food sources, functions, storage in the body. Changes in cooking and processing. Other sweetening agents.
• Fats and oils-classification, properties, food sources, functions.
• Amino acids and proteins-sources, functions, properties, denaturation. Assessment of protein quality, nitrogen balance, modification of food protein through processing, protein deficiency.
• Minerals-functions, sources, bio- availability and deficiency.
• Vitamins- classification, units of measurement, sources, functions and deficiency.
• Vitamin and mineral loss during processing, their fortification, enrichment and restoration.
• Enzymes, nomenclature, kinetics, controlling enzyme action. Enzymes added to food during processing, modification of food by endogenous enzyme, enzyme inhibitors present in food
• Pigments & Flavours in fats, fruits & vegetables.
• Introduction to microbiology, General characteristics of bacteria, fungi, virus, protozoa, algae.
• Role of microbiology- Environmental effects on microbial growth.
• Effects of micro-organisms on food degradation and food born illnesses-Bacteria, virus, Molds, yeasts and parasites
• Control of micro-organisms, growth curve, oxygen availability, temperature and others.
• Microbial intoxications and infections-sources of contaminations of food, toxin production and physiological action and methods of control, beneficial effects of micro-organisms, relevance of microbiological standards for food safety.
• Microbiology of different foods- spoilage and contamination-sources, types, effects on the cereals and cereal products, sugar and sugar products, vegetables and fruits,
• Fish and other sea foods, Eggs and poultry, Meat and meat products milk and milk products, Canned and other processed foods
• Other food hazards-chemicals, antibiotics, hormones, metal contamination
• Food contamination:-sources& transmission.
• Importance of personal hygiene of food handler
• Safety in food, Procurement, storage, handling and preparation, control of spoilage and safety of left over.
• Cleaning methods- sterilization and disinfection
• Kitchen sanitation
Sensory assessment of food quality by various methods
Consideration for testing sensory evaluation: Testing area, Testing set up, Lighting, Testing schedule, Preparation of samples, Cooling and order of presentation, types of panels trained and consumer panels, semi-trained.
Importance of packaging, Evaluation of food package, Criteria, appearance, protection, function, cost, material and forms of packing, Different food packaging material, Packaging methods and performances, Food and food packaging interactions
Food packaging and labeling, Packaging evaluation, Shelf life estimation methods
Principles of food processing & preservation: thermal processing, ionizing, radiation, refrigeration, freezing, dehydration, chemicals
Basic processing technology of cereals and legumes, oil seeds, fruits and vegetables, milk and milk products, meat, fish, poultry and eggs.
Fermentation technology, Preservatives and additives, extruded foods
Spectrophotometry, Fluorimetry, Radioactivity, Chromatography
Food Laws & food Standards
Food Adulteration, adulterants & tests for detection
Importance of Toxicology
Naturally occurring toxins in various foods
Physical treatment of food and health hazards, carcinogens, Genetically engineered Food and their safety
Food composition and factors affecting food composition.
Sampling techniques, preparation of sample
General physical methods to analyses foods: Lactometric determination, Refractometric, Polariometry & Polarography, Food Reheology, Viscosity, Surface tension, Freezing point
General Chemical methods of analysis in Food: proximate principles, Moisture, Specific gravity, Ash and types, Total protein, Total fat, Total carbohydrates, Crude fiber and dietary fiber.
Trends in social changes and its role in diet pattern in the social trends as a frame work in new product innovation.
Food situation in India and outside. Tapping the unconventional post harvest losses and prospects for food processing for export.
Traditional foods – status and need for revival in the context of westernized non-traditional foods, urbanization and such factors.
Product development – Primary processing, secondary processing.

Entrepenuership:- Plant location, Investment, Financing in Project, Equipment and Space, Costing of product, advertising and marketing
**GEOGRAPHY**

**Physical Geography:**


**Geography of India:**

India in context to Asia, Physiographic division of India, Indian Monsoon, River system, Climate and natural vegetation, Soil, Indian Agriculture, Environmental Problems and measure of Conservation.

**Resource Geography:**

Classification of resources, Major resources with reference to Water, Mineral, Agricultural, Soil, Petroleum, Forest and Biotic resources and their world distribution, Resource depletion and their conservation.

**Geography of Asia:**

Countries and Regions of Asia, Physiography, Climate, Vegetation, Population, Asia’s position in the World, European exploration of Asia.

**Geography of Jammu & Kashmir:**


**Practical Geography**

Scale, Projections, Statistical techniques in Geographical analysis- Mean, Median Mode, Standard Deviation, Isopleth and Choropleth, GIS, Remote Sensisng and GPS.
**GEOLOGY**

**Petrology:**
Origin, types, texture, structure, classification and forms of igneous rocks, Bowens reaction series, Phase rule, mineralogical characteristics of igneous rocks, ACF and AKF diagrams.

Mechanism of formation, texture, structure and classification of clastic and non clastic sedimentary rocks.

Metamorphism, types and agents; greenstone, granulite and amphibolite rocks, metamorphic evolution of pelitic and calcareous rocks.

**Structural Geology / Geomorphology/Hydrology**
Attitude of beds, folds, faults, joints, foliation, lineation, rock deformation, interior of earth, plate tectonics, continental drift, sea floor spreading, origin of earth, earthquakes and volcanoes.

Rock weathering, landforms produced by river, wind, glaciers, Karst topography, coastal geomorphology, application of geochronology in geology.

Types of aquifers, distribution of groundwater, hydrological cycle, permeability and porosity

**Mineralogy / Crystallography:**
Petrological microscope, polarized light, nicol prism, pleochroism, birefringence, interference colour, extinction, refractive index, uniaxial and biaxial minerals; composition, physical and optical properties of rock forming minerals; structure, morphology, symmetry and classification of crystal systems, Twining laws, crystallographic projections.

**Palaeontology/ Stratigraphy:**
Origin of life through ages, fossilization, morphology and geological distribution of major invertebrates, code of nomenclature, evolution of horse and elephant, plant fossils and gondwana flora.

Geological time scale, stratigraphic classification, correlation of Palaeozoic, Mesozoic and Cenozoic successions of India.

**Economic Geology:**
Classification, properties, composition and mode of occurrence of minerals and ores. Mineral reserves in India; metallogenic provinces and epochs; process of formation of mineral deposits; supergene enrichment, residual deposits; hydrothermal deposits; mode of occurrence and distribution of ore deposits in India, mineral exploration; abrasive, industrial and refractive minerals; fossil fuels, oil traps, radioactive minerals.
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2- iwoZe/;dky ¼HkfDrdky½dh ,sfrgkfld i”BHkwfe] lHkh izeq[k /kkjkvksa dh fo’ks”krk,a]
   izeq[k dfo ¼lw]j ryllh] dchj tk;½ ,oa mudh d’fr;ka
4- v/k/kqfud dky % ^d^ i Hkkx & HkkjrsUnq ;q] xosnh ;q] Nk;kokin izxfrokn] iz;ksxokn]
   ubZ dfork ¼ek= izo‘fr;ka½
   ^k^ [x] Hkkx & dgkuh] miU;kl] ukVd ,oa fucU/k ¼mnHkn] Hko ,oa fodk½

[^k^ dkO;kax ifjp;
   ^d^ dkO; dk Lo;i] gsrq ,oa iz;ksstuA j] ds fofHkUu Hksn

fu/kkZfjr iqLrd & ^j[f’ejFkh½ ¼[k.MdkO;½_ys[kd & jke/kkj flag fnudj
   izdk’kd & dsnkjukFk flag] mn;kipj jktsUnz uxj] iVuk&4
   ikB~;Øe dk fooj.k

1- j’ejFkh& dkO; :lk @ [k.MdkO;
2- j’ejFkh esa HkkX; vkSj ikS:”k IEsU/kh fopkj
3- j’ejFkh esa ;q] vkSj /keZI EcU/kh fpUru
4- j’ejFkh esa orZeku thou dh vfHkO;fDr
5- ^j’ejFkh½ ”kh”kZd dh lkFkZdrik
6- izeq[k ik=ksa dk pfj= fp=.k
7- dfo fnudj dk lkfgfR;d ifjp;

fu/kkZfjr iqLrdsa
2- Js”B fucU/k] laiknd & vkyksd xqlr] izdk’kd & f’kk Hkkjrh d’ehjh xsV] fnYyh

foosP; fo”k; & ukVd

1- /zkqolokfeuh dh ,sfrgkfldrk
2- L=h foe`kZ dh n`f"V ls /zkqoLokfeuh
3- /zkqoLokfeuh dh ewy leL;k@izfrik}@mn~ns';
4- izlkn dh ukV~;dyk
5- /zkqoLokfeuh dh jaxeaph;rk

foosP; fo"k; & fucU/k
&&&&&&&&&&&&&&
1- ikB~;Øe esa fu/kkZfjr fucU/kkksa dk vkykspukRed ewY;kadu
2- fgUnh fucU/k ds fodkl esa fucU/kdkj dk LFkku ¼ikB~;Øe esa fu/kkZfjr½
3- ikB~;Øe esa fu/kkZfjr fucU/kkksa dh Hkk"kk 'kSyh

fu/kkZfjr iqLrd
^`kdqUryk;u^ ] ys[kd & MkW- vksiejdk'k xqlr] izdk'k'd & jktiky ,.M IUt+] fnYyh

ikB~;Øe dk fooj.k
1- `kdqUryk;u dk egkdkO;Ro
2- ukedj.k dh IkFkZdrk
3- ukjh Hkkkouk
4- izd'fr fp=.k
5- izeq[k ik=ksa dk pfj= fp=.k
6- dkO; IkSuUn;Z

Fu/kkZfjr iqLrdsa
1- miU;kl & dkyh vka/kh] ys[kd & deys'o]j izdk'k'd & jktiky ,.M IUt+] fnYyh
2- dgkuh laxzg & dgkuh ,dkn'kh] ys[kd & n'kjFk vks>k]
   izdk'k'd & f'k[kk Hkkjkjh j'ehjh xsV] fnYyh
   ¼mlus dgk Fkk] bZn dk R;kSgkj] NksVk tknwj dgku;ka ikB~;Øe esa fu/kkZfjr ugha
gSaA½

ikB~;Øe dk fooj.k
1- miU;kl & dkyh vka/kh
   1- miU;kl dk izfrik|
   2- miU;kl esa fp=r jktuhfr dk Lo;i
   3- vkt ds le; esa miU;kl dh izklafxdrk@izfrik|
4- miU;kl esa O;Dr oSpkjd fVlif.k;ksa dk vkykspukRed ewY;kadu
5- izeq[k ik=ksa dk pfj= fp=.k
6- miU;kl esa fp=r nkEiR; lEcU/kkksa dk Lo;i

   2- dgkuh ,dkn'kh
   1- fgUnh dgkuh dk mn~Hko vkSj fodkl
   2- fu/kkZfjr dgku;ksa dh rkfRod vkykspuk
   3- fu/kkZfjr dgku;ksa ds izeq[k ik=ksa dk pfj= fp=.k

___________________________________________________
HISTORY

Indus valley: Economy; Vedic Age: Society, Economy & Polity; Jainism and Buddhism: Origin and Growth; The Mauryas: Sources, Asoka’s policy of Dhamma; Post Mauryas: Trade Commerce and Cultural Developments; Guptas: Cultural Developments; Harsha: Territorial expansion and Administration; Contributions of Lalitaditya, Avantivarman and Dida to Kashmir history.

Sultanate of Delhi under Qutubuddin Aibak and Iltutmish; Balban’s Theory of Kingship, Alauddin Khilji’s Market Control and Conquests; Muhammad Tughluq’s Transfer of Capital and Token Currency; Firoz Shah Tughluq’s Agrarian Reforms and Public Welfare Activities, Conquests of Sikandar and Ibrahim Lodi, Architecture of the Sultanate of Delhi, Jammu under Raja Maldev and Ranjit Dev, Kashmir under Zain-ul-Abidin.

Causes and Spread of 1857 India’s First War of Independence; Brahmo Samaj, Arya Samaj and Theosophical Society; Acts of 1858, 1909 and 1919; Factors and Spread of Indian National Movement; Moderate and Extremist Groups of Indian National Congress; Non-Cooperation Movement; Simon Commission; Quit India Movement; Cabinet Mission; Mountbatten Plan; Jammu and Kashmir State under Maharaja’s Gulab Singh & Ranbir Singh.

Causes and Growth of Industrial Revolution; American War of Independence; French Revolution; Unifications of German & Italy; Russian Revolution, Causes of Spread of World War-I; Peace Settlement of 1919 League of Nations; Causes, Spread and Impact of World War-II; Formulation of UNO.
HOME SCIENCE (Human Development & CRME)

INTRODUCTION TO HOME SCIENCE:
I. Meaning, philosophy and scope of Home Science
II. Home science as a discipline: Structure and components.
III. Interdisciplinary nature of Home Science education
IV. Home Science for personal, professional and community development.
V. Vocational development through Home Science.

EXTENSION AND COMMUNICATION
I. Extension Education: Concept, nature, history, philosophy and principles of extension education, Characteristics and nature of extension work, extension education and services.
II. Home Science Extension: History, development and relevance, Home Science extension as a discipline qualities of an extension worker.
III. Programme Planning: Concept, scope and process, Models, Implementation and Evaluation
IV. Communication: Concept, history, nature, significance, Process and Approaches-Individual, group, mass, Audio-Visual aids-Types and uses.
V. Developmental Communication: Definition, Models of Developmental Communication, Use of ICT in developmental communication.

HUMAN DEVELOPMENT
II. Methods of Child Study: Interview, Observation, Sociometry, Case Study
III. Early Childhood Care and Education: Definition, importance and scope, ICDS: Introduction, objectives, beneficiaries
IV. Family Studies: Marriage and Family: Definition, types, family life cycle, Issues concerns of various types of families, family counseling.
V. Women and Child Welfare: Demographic profile of women and children in nutrition, education and survival, Children at risk: Street and working, parentally deprived, neglected and delinquent, children in armed conflict, Children with special needs: Concept and classification, developmental needs of orthopedically challenged, mentally challenged and sensory impaired.

FOOD AND NUTRITION
I. Food: Functions of Food, Food groups and their nutritive value, Concept of Nutrition and nutritional needs of various age groups.
II. Food preparation, preservation and processing: Effect of preparation on food component, Factors effecting food acceptance, Principles & methods of food preservation and
processing, Food adulteration, Food Laws and food standards.

III. Normal and Therapeutic Diet: Meal Planning: Importance basic principles and factors affecting meal planning, Normal Diet: Nutrition through life cycle; Therapeutic Diet: Diet for Diabetes, Hypertension, liver diseases, gastrointestinal diseases.

IV. Community Nutrition: Nutritional and health status and Methods of Assessment, Malnutrition: Factors affecting and types.

V. Nutritional Programme and Agencies working to combat malnutrition: ICDS Mid-day meal, Vit A and Vit D prophylaxis, Nutritional Anaemia, ORT, prophylaxis programs, Role of WHO, FAO, UNICEF, CARE, NIN, NFI, FND, FIRI, NNMB, ICMR, ICAR.

CLOTHING AND TEXTILES
I. Textile Fibres and Yarns: Classification of textile fibres, properties and structure of cotton, wool, silk, rayon, nylon and acrylic fibres, Spinning, types and properties of yarns, classification of weaves, methods of fabric construction.

II. Clothing: History, theories and significance of clothing, Factors affecting clothing, Equipment & Tools for clothing construction.

III. Finishing & Laundering: Importance and classification of finishes, Dyeing and printing: Dyed and printed fabrics of India, Laundering: Classification, equipments and agents for laundering natural and manmade fabrics.

IV. Fashion Design: Elements, principles and components of fashion design, Fashion Cycle, Factors affecting fashion.

V. Fashion Marketing and Buying: Definition of Marketing, Fashion marketing in practice, Importance and problems of textile industry, Buying and care of household linen and personal garments.

RESOURCE MANAGEMENT
I. Management: Concept and steps of Management process, Classification and Availability of Resources, goals, values, standards, decision making and work simplification.

II. Elements of Design: Principles and elements of Art and Design, Colour: Definition, dimension, theories, classification of colour, colour schemes, Application of elements and principles of design.

III. Family Resource Management: Family Income: Types and expenditure, Family Budget: Steps, factors and Importance, Savings and Investments: Meaning and Type.

IV. Market and Price: Definition, types and function of Market & price, Factors affecting marketing and pricing, Sales promotion practices, branding, labelling, packaging and advertising.

V. Consumer Economics: Definition of consumption, utility, production and exchange, Consumer problems: Causes and Solution, Consumer protection and education.

ENTREPRENEURSHIP DEVELOPMENT
I. Conceptual framework: Definition, need and process, Entrepreneurship opportunities in Home Science.

II. Enterprise planning, Types of business and self employment opportunities.

III. Launching: Process of launching an enterprise.

IV. Management: Personnel, production, marketing, finance and quality control.

V. Women Entrepreneurs: Characteristics, role, demand and challenges.

FUNDAMENTAL OF COMPUTERS AND RESEARCH
I. Computer Basics: Overview, components, devices, operating systems.

II. Introduction to MS Word, MS Excel, MS power point, internet.
III. Research methods: Definition, types and tools.
IV. Classification and analysis of data.
V. Report writing.

HUMAN GENETICS

Cell: Structure, function and Cell organelles
1) Introduction to cell
2) Prokaryotic and eukaryotic cell
3) Nucleus
4) Mitochondria
5) Endoplasmic Reticulum
6) Golgi Complex

Chromosomes: Types of Chromosomes
1) Polytenic chromosome
2) Lamp brush chromosome

Chromosomal changes
1) Structural
2) Numerical

Chromosomal abnormalities
1) Down syndrome
2) Klinefelter syndrome
3) Turner syndrome

Human sex chromosomes: An introduction, Cell division
1) mitosis
2) meiosis

DNA structure and function
1) Physical and chemical structure of DNA
2) DNA replication

Human Physiology

Digestive system and associated glands
i. Stomach, ii. Intestine, iii. Liver, iv. Pancreas

Human blood and its composition

Endocrine gland: Anatomy and physiology

Embryology

Gametogenesis
i. Spermatogenesis, ii. Oogenesis

Fertilization
1) External fertilization
2) Internal fertilization

Cancer
1) Definition
2) Types
3) Cancer causing genes
4) Tumor suppressor genes

**Stem cells**
- i. Sources, ii. Applications

**Detailed study of the following:**
- i. Paramecium, ii. Amoeba

**Parasitology**
**Life cycles of**
- i. Fasciola hepatica, ii. Taenia solium

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**INFORMATION TECHNOLOGY (M.Sc. IT)**

1. **(A) Series-Numeric and Alphabetic**
   - Logical Reasoning 35%

2. **English- Synonyms, Antonyms, Identification of Grammatical Errors etc**
   - 15%

3. **Arithmetic including Percentage, Interest, Profit and Loss, Time and Work Height and Distance, Stock and Shares, Ratio and proportion, Average, Fraction etc. and Mathematics, Covering Trignmetry, Geometry, Algebra, Calculus etc**
   - 50%
KASHMIRI

شاعری:

(5) بیب کہ بھی جانے کی کتاب
(6) تاریخ میں پانی کی تازتیت

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TEXT BOOK PRESCRIBED:

ILLAM TE ADAB , B.A Part I, II and III

Published By Department of Kashmiri,

Kashmir University Srinagar

Aims of Education: Concept of Aims, Individual Aim, Social Aim, Individual Vs Social Aim.

Agencies of Education: Concept of Agencies of Education, Family, Home and School as major agencies imparting education in a society.

Curriculum and its Development: Curriculum: Meaning and Definitions.

Types of Curricula- Subject Centred, Learner Centred. Basic Principles of Curriculum Construction.

Curricular and Co-curricular Activities: Concepts and Types of Co-Curricular Activities, Importance of Organizing Co-curricular Activities in Educational institutions.

Education and Social Change: Meaning and Definitions of Social Change, Factors responsible for bringing about social change, Role of Education.

Education and National Integration – Concept of National and Emotional Integration, Barriers in way of achieving National Integration, Role of Education in Promoting National Integration.

Idealism: Concept, Salient Features of Idealisms with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Pragmatism: Concept, Salient Features of Pragmatism with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.

Naturalism: Concept, Salient Features of Naturalism with reference to Aims, Curriculum, Instructional Techniques, Discipline and Role of Teacher.


Community and Education: Meaning of Community, Role of Education for upliftment of Community, Mass Media as a Social Means of Education.

Education and Culture: Concept of Culture, Features of Indian Culture, Relation between Education and Culture.

Inclusive Education: Meaning, Scope and Role of Inclusive Education.

Psychology and Education: Meaning of: i) Education ii) Psychology iii) Educational Psychology, Relationship between Education and Psychology. Difference between Psychology and Educational Psychology.

Theories of Learning – Thorndike’s Trial and Error Theory – Concept, Experiment, Laws of Learning based on the theory. Educational implications of the theory.

Gestalt Theory of Learning by Wolfgang Kohler, Concept, Experiment, Educational Implications.

Intelligence: Meaning and Definition of Intelligence.

Two Factor Theory by Charles Spearman, Description of the Theory, Characteristics, ‘g’ factor and ‘s’ factor, Educational Implications of the Theory.

Primary Mental Abilities Theory by LL Thurstone: Description of the Theory, Educational Implications of the Theory.

Intelligence Tests: Concept of Intelligence Tests, Uses of Intelligence Tests. Concepts of I.Q (Intelligence Quotient) MA (Mental Age) and CA (Choronal Age) Classification of I.Q. given by L.M. Terman.

Memory and Forgetting: Meaning and Definitions of Memory and Forgetting

Components of Memory: Learning, Retention, Recall and Recognition. Types of Memory, Signs of good Memory, Methods of memorizing, Factors responsible for causing Forgetting.

Measure of Central Tendency: Concepts of Mean, Median and Mode, Computation of Mean, Median and Mode of grouped and ungrouped data. Uses of various Measures of Central Tendency in Educational situations.

Methods of Studying Human Behaviour

Introspection- Meaning and definitions, process involved in introspection, merits and limitations of the method.

Observation –Meaning and Definitions, Types: Controlled and Uncontrolled, steps involved during observation, merits and limitations.

Experimental – Meaning and definitions, characteristics, steps involved in experimental method, merits and limitations.
**Gifted and Creative Children:** Meaning and definitions, difference between gifted and creative children. Characteristics of gifted children, identification of gifted children, educational provisions for the gifted children.

**Mentally Retarded children:** Concept of mental retardation, causes of mental retardation, educational provisions for mentally retarded children.

**Motivation and Adjustment:** Concept: Types of motivation (intrinsic and extrinsic) Bases of motivation—needs (physiological and psychological) and drives.

**Personality:** Concept, Development of Personality. Types of Personality, Assessment of Personality: Subjective Techniques (Anecdotes, Autobiography, Case Study), Projective Techniques.

**Devices of teaching:** Meaning, importance, types of devices of teaching:
- b) Fixing devices: Meaning and types (drill, review, recapitulation and repetitive practice)

**Audio-visual aids:** Meaning, objectives, classification, importance, advantages and limitations of:
- a) Audio aids: Telephone, Radio, Tape-recorder
- b) Visual Aids: Over-head projector, slide projector, maps, charts, models, flash cards, display boards and diagrams.
- c) Audio-visual aids: films with sound tracks television, video.

**Lesson Planning:**
- b) Meaning, Importance, principles of planning, criteria of an effective lesson plan.
- c) Types of lesson: Knowledge, skill and appreciation lesson, significance and steps of each lesson.
- d) Approaches to lesson, planning: Herbartian and RCEM approaches.
- e) Preparation of unit/yearly lesson plan.

**Method of teaching:** Meaning, importance, procedure, advantages and limitations of:
- a) Inductive-Deductive method
- b) Analytical synthetic method
- c) Project method
- d) Problem solving method
- e) Heuristic Method

**Elementary Education:** Concept, objectives of elementary education. Concept of Universalization of Elementary Education (UEE), Promotion of UEE through SarvShiksha Abhiyan (SSA)

**Secondary Education:** Concept, Objectives of secondary education, Organizational Pattern as suggested by Kothari Commission of Education (1964-66) and National Policy on Education 1986, Main problems of secondary education and remedial measures to solve these problems.

**Higher Education:** Concept, objectives of higher education as per National Policy on Education. Problems being faced in higher education with emphasis on problem of Selective Admission, Autonomy & Examination and their remedial measures.

**Women Education:** Concept of women education, Need for prioritizing women education, Problems of women education and suggestive remedial measures.

**Adult Education:** Concept of Adult Education, Functions of adult education. National Adult Education Programme (NAEP)-Meaning and its features, National Literacy Mission (NLM), objective and importance.

**Educational Technology:** Concept of Educational Technology, Various approaches to implement educational technology towards Quality Education, Role of ICT in Education.

**Teacher Education:** Concept of teacher education, objectives of teacher education in India. Problems of teacher education, Role of NCTE in improving the Quality of teacher education in India.

**Vedic Education:** Meaning of Vedas, Aims of Education, Curriculum and Organization, Yoga-Meaning and Importance of Yoga Philosophy.

**Buddhist Education:** Aims of Education, Curriculum, Women Education, Qualities and Duties of Teachers.

Foundations of Library Science and Society

Organization of Documents
Library Classification - Species of Library Classification, Structure and Features of CC, DDC, UDC & Bibliographic Classification, Notation, Library Catalogue - Library Catalogue Codes - ALA, AACR2 and CCC, Physical Forms of Catalogue, Union Catalogue, Subject Cataloguing - LCSH and Rule of Thesauri, Chain Procedure, MARC.

Reference Service and Sources
Reference Service, Types of Information Sources, Information Literacy- Users Education, Evaluation of Print and Online Reference Sources.

Management of Libraries and Information Centres

Documentation and Information Service
Indexing and Abstracting Services - Types, Reprographic Services-Methods, Current Awareness Service (CAS), Selective Dissemination of Information (SDI), Methods and Techniques Documentation and Information Centres: NISCAIR, NASSDOC, SENDOC

Computer Application to Libraries
M.P.Ed (PHYSICAL EDUCATION)

1. History of Sports
2. Sports Aptitude
3. General Knowledge of Different Games/ Sports
MATHEMATICS

Partial Differentiation, Euler’s Theorem, Double Points, Polar co-ordinate system and its relation with Cartesian co-ordinate system, angle between radius vector and tangent to a curve. Integration and its applications. Calculus of vector-valued functions e.g. gradient, divergence, curl and their properties. De-Moivre’s theorem and its application, exact equations, differential Equations of 2nd and 3rd order with constant coefficients.

Sets, relations and functions. Groups, subgroups, cyclic groups, quotient groups, and their properties. Group homomorphism and isomorphism. Lagrange’s theorem and its applications. Real number system including least upper bound property. Sequences and their limits. Continuous and discontinuous functions. Equations of Sphere and cone and their elementary properties.

Definition and examples of a ring, ring homomorphism and isomorphism. Vector spaces, subspaces, linearly dependent and linearly independent vectors, basis and dimension of a vector space. Matrix representation of a linear transformation on a vector space and vice-versa. Inverse of a linear Transformation.

Types of matrices, rank of a matrix. Applications of Cayley- Hamilton theorem. Mean, variance and moment generating functions of Binomial, Poisson and normal distributions.
MICROBIOLOGY

History and scope of Microbiology, origin of microbes, pure cultures techniques, microbial culture media, sterilization, culture collection, purification and preservation. Principles and applications of microscopy (bright field, darkfield, phase contrast, fluorescence and immunofluorescence, confocal microscopy, electron microscopy).

Classification of bacteria; cultivation and reproduction in bacteria and viruses. Plant, animal and bacterial viruses, Retroviruses. Distribution, classification and reproduction of algae (Fristch) and fungi (Ainsworth). Morphology, motility and reproduction in protozoa.

Industrial products derived from microbes, industrial enzymes, production of antibiotics, vitamins and vaccines. Single cell proteins, biofertilizers, nitrogen fixation. Infectious disease transmission, respiratory diseases caused by bacteria and viruses, tuberculosis, sexually transmitted disease including AIDS.


History of Enzymology, Enzyme vs chemical catalysts, Nomenclature and classification of enzymes, Enzyme activity, enzyme action, Enzyme substrate complex, Types of enzymes.

Tools in genetic engineering; Restriction enzymes: Polymerases, ligases, kinases, phosphatases, exonucleases, DNase, RNase and Proteinases; Cloning vectors; plasmids, cosmids, Genomic and cDNA libraries, Polymerase chain reaction, DNA sequencing, DNA fingerprinting, molecular markers; Introduction to Bioinformatics.
MUSIC:

A. **Technical Terminology:** (Detail study)

Nad, Shruti, Swaras, Chota Khayal, Bada Khayal, Dhruvpad, Dhamar, Tappa, thumr, Trana, Maseet Khani Gat, Raza Khani Gat, Raga, Thata, Alankar, Meend, Murki8, Chikari, Zamzama, Krintan, Jaud, Jhala, Toda, Nayak, Gayak, Chaturang..

B. **Applied theory**

**Section I.**

a) Establishment of swaras according to ancient and modern times.
b) Establishment of 22 shruties in relation to vibrations and length of strings.
c) Definition of Ragas:- Yamam, Kafi, Khamaj, Allhaia Billawal, Bngeshwari, Malkouns, Bhairav, Bahar, Mian-Malhar, Darbari, Adana, Bhupali, Deshkan.
d) Definition of Talas:- Teen-Taal, Jhap-Taal, Ek-Taal, Char-Taal, Dadra, Keharva, Dhamar, Adachautal, Rupak, Deeopchandi, Thumra, Tilwara.

**Section II**

a) Time theory of Indian Music.
b) Classification of Indian Instruments.
c) Detailed study of i) Grama ii) Murchana.
d) Study of the Dakshani Tal Paditi.

**Section III**

b) Biographical Sketches and the contributions of Indian Scholars and Musicians as :
   (i) Pt. V. N. Bhat khanday (ii) Pt. V. D. Paluskar (iii) Sharang Dev (iv) Sri Niwas
   Willayat Khan (ix) **Nikhal Benar Jee** (x). Pt. Shiv Kumar Sharma.
c) Granthas (Detailed Study):
   Nataya Shatra, Sangeet Ratna kar , Brihd –Desi, Rag Vibhod, Geet Govind, Rag
   Tirangni.

**Section IV :**

a. Knowledge of Western Music:- (i) Melodi (ii) Harmony (iii) Swaras (iv) Scales( v)
   Staff Notation.
b.) What are overtones. How seven tones are produced from the strings of
   Tan Pura.
c) Consonant and Disconsonant Notes
d.) Gamak and its kinds
e) Folk and Classical dances of India.
Physics

Unit Vectors, displacement, area element, volume element, velocity and acceleration in Cartesian and Spherical Polar system, two body system, relationship between displacements, velocities, kinetic energies and angles in lab. and centre of mass systems, inverse square law of force, Kepler’s laws. Energy of simple harmonic Oscillator, compound pendulum, Oscillation of two masses connected by a spring, driven harmonic oscillator, transient and steady state behaviour, Galilean transformations and conservation laws, conservation of momentum, and energy, search for either and Michelson-Morley experiment, Lorentz transformations, length contraction, time dilation, variation of mass with velocity, mass energy equivalence, energy-momentum relation, Doppler effect, Scalar and vector fields, Gradient of a scalar field, line, surface and volume integrals, Divergence of a vector field, solenoidal field, Gauss’s divergence theorem. Gauss’s Law in integral and differential forms, line integral of Electrostatic field, Poisson’s and Laplace’s equations, Electric quadrupole, Electric field and potential due to a quadrupole, Dielectrics, Polarization of dielectric, Relation \( \mathbf{D} = \varepsilon \mathbf{E} + \mathbf{P} \), Atomic Polarizability, Electric susceptibility, Equation of continuity, Electrical conductivity, Microscopic form of Ohm’s law, Biot-Savart’s law, Ampère’s circuit law, Relation between magnetic dipole moment and angular momentum, Relation between \( \mathbf{B} \), \( \mathbf{H} \) and \( \mathbf{M} \), wave equations for \( \mathbf{E} \) and \( \mathbf{B} \), Electromagnetic waves in dielectric medium, Reflection and transmission at normal and oblique incidence, Derivation of laws of reflection and refraction.

Periodic functions, even and odd functions, continuous and discontinuous functions, complex form of Fourier series, Fourier solution of simple function, Applications of Fourier theorem to square wave, rectangular wave, half wave rectifier and full wave rectifier. Legendre differential equation and its series solution, Legendre Polynomial, orthogonality property, Hermite differential equation ad is series solution, Hermite polynomial. Laws of Thermodynamics, Entropy, Adiabatic expansion, Joule Thomson expansion, Boyle temperature, Maxwell’s general relationships, Application to Joule-Thomson cooling and adiabatic cooling, black body radiation, Rayleigh-Jeans law, Planck’s law, Wien ad Rayleigh Jean’s law. Probability, macro and micro states, Phase space, Boltzmann’s distribution law, Bose Einstein statistics, black body radiation and Planck’ radiation law, Fermi Dirac statistics. Young’s double slit experiment, Fresnel’s Biprism, thin films (reflected and transmitted), Newton’s rings, Michelson’s interferometer, Nicol prism, quarter wave plate and half wave plate. Fresnel’s Diffraction, rectilinear propagation of light, zone plate, diffraction at a straight edge, Fraunhofer diffraction,determination of wave length of monochromatic light using grating, resolving power of grating. Diodes, Liner Diode, Schottky, tunnel, light emitting, laser diodes, unjunction transistor, field effect transistor (FET), Half and full wave rectifier, ripple factor, L and \( \pi \) type filter circuits, characteristics of a transistor in CB, CE and CC mode, biasing of a transistor, Integrated Circuits (IC) and its classification, operational amplifier, inverter, Boolen identities, De-Morgan’s law, logic gates, truth tales of OR, AND, NOT, NOR, NAND, XOR gates.

Compton effect, wave particle duality, phase and group velocity, Heisenberg’ uncertainty principle, Schrodinger’s wave equation (time dependent and independent), operators, expectation values, probability current density, Eigen values and Eigen functions. Bohr’s correspondence principle, space quantization, electron spin, vector atom model. Fine structure of hydrogen atom, Zeeman effect, Paschen back effect, Binding energy, Nuclear stability, semi-empirical mass formula, liquid drop model, Nuclear forces and their properties. \( \alpha \), \( \beta \) and \( \gamma \) decay processes, neutrino hypothesis of Pauli, quarks as the basic constituent of matter their properties. Lattice and basis, unit cell, lattice types, symmetry elements in crystal, Miller Indices, reciprocal lattice, Laue’s theory of X-ray diffraction, Bragg’s law, superconductivity, Miessner Effect, Type I and II superconductors. Dia, para, ferro, antiferro and ferrimagnetism, Ferroelectric crystals and their applications, Defects in solids, Luminescence, Raman Effect, Principle of Holography, recording and properties of a hologram. Types of optical fibers, optical fiber sensors, Absorption, spontaneous and stimulated emission. Population inversion, active medium, pumping, metastable stages. Three and four level pumping schemes, conditions for Laser action, Ruby and He-Ne laser.
POLITICAL SCIENCE


NATIONAL POWER - Meaning, Role and Major quantifiable and Non-quantifiable Elements

NATIONAL INTEREST- Instruments for promotion of National Interest-Diplomacy, Imperialism and Neo-imperialism

RESTRAINTS ON NATIONAL POWER - Collective Security and Balance of Power

CHANGING TRENDS IN INTERNATIONAL POLITICS - Cold War, Détente, Bipolarity and Unipolarity

STATE POLITICS IN INDIA: A FRAME WORK - Indian Federal Structure and Centre-State Relations, Contentious Areas of Centre-State Relations-Article 356 and Section 92 of J&K Constitution.

BACKGROUND TO POLITICS OF J&K - New Kashmir Manifesto and Instrument of Accession and Article 370 of Constitution of India


GOVERNMENTAL STRUCTURE - Executive—Chief Minister and Council of Ministers, Legislature and Judiciary

PARTY POLITICS IN J&K- Nature of Party System in J&K, Ideology and Political Program of INC, BJP and NC

PLATO - Concepts of Justice, Philosopher King, Education, Communism and Ideal State

ARISTOTLE - Ideal State, Slavery, Private property and Family, Citizenship, Classification of Governments and Theory of Revolution

MACHIAVELLI - Views on Human Nature, Ethics and Politics, Preservation and extension of power, and his contribution to Modern Political Thought

KARL MARX- Views on dialectical and Historical Materialism, Surplus Value, Class and Class Struggle, Theory of Alienation and Marx’s Theory of State and Revolution

M.K. GANDHI- Views on Non-violence (Ahimsa), Satyagraha, Ends and means, Property and Trusteeship and Relevance of Gandhi

COMPARATIVE POLITICS- Meaning; distinction between Comparative Government and Comparative Politics, Nature and Approaches, Structural-Functional Analysis, Decision-Making theory, Landmarks and Trends in Comparative Politics

POLITICAL CULTURE, Political Participation, Political Socialization and Political Development

POLITICAL PARTIES, Interest Groups and Voting Behavior

ELITIST THEORY OF DEMOCRACY, Pluralist Theory of Democracy, Dependency Theory and Features of Democratic and Authoritarian regimes

EMERGING CHALLENGES - Globalization, Women’s Empowerment, Environment Issues and Human Rights

NATURE AND SCOPE OF POLITICAL SCIENCE - Traditional Approaches, Behaviouralism and Systems theory

STATE, SOCIETY AND NATION, Theories of Origin of State, Social Contract Theory, Austin’s Theory of Sovereignty, Pluralistic Theory of Sovereignty

THEORIES OF NATURE OF STATE - Organic, Liberal and Marxist, Rights, Liberty and Equality and Justice

POWER, Authority and Legitimacy, Democracy and Concept of Revolution

LIBERALISM, Marxian Socialism and Welfare State

PHILOSOPHY OF INDIAN CONSTITUTION- Basic Features and Amendment of Indian Constitution

INDIAN PARLIAMENT - The President of India, The Prime Minister and Council of Ministers and The Supreme Court of India

FEATURES OF INDIAN FEDERALISM, Fundamental Rights and Duties and Directive Principles of State Policy

CHANGING NATURE OF PARTY SYSTEM IN INDIA, Coalition Politics

COMMUNALISM AND SECULARISM, Caste and Indian Politics and Regionalism in Indian Politics
PSYCHOLOGY


ਕਲਾਸਕੀ ਮਾਰਿੱਡ ਦੀ ਅਭਿਆਸ ਵਿਚ :

(i) ਕਲਾਸਕੀ ਮਾਰਿੱਡ ਦੀ ਅੱਠ ਮਾਹਵਾਰ ਦਾ ਦੱਖਣ।
(ii) ਕਲਾਸਕੀ ਪੈਂਟਿੰਗ ਤੋਂ ਪੁਰਾਣ ਦੇ ਵਿਚਾਰ।
(iii) ਕਲਾਸਕੀ ਨੂੰ-ਨਾਸਤਮੀ ਵਿਚ ਪੈਂਟਿੰਗ ਵਿਸ਼ੁਵ ਦੀ ਮਜ਼ਬੂਤੀ ਆਖੋ ਵਾਲੇ ਦਧਾਤੂਵਾਂ ਦਾ ਜਾਗਰੁਤੀ।

ਪ੍ਰਾਪਤ ਪ੍ਰਦਾਨ : ਦਾਈਰਾਖ਼ਤ ਤਕਨੀ (ਤਰਕਦਿਨ)

ਲਗਾਏਰ : ਕਲਾਸਕੀ ਨੀਤੀ

(i) ਕਲਾਸਕੀ ਸੰਤਕਰਮ ਦੁਆਰਾ ਸੇਵਾ-ਨੀਤੀ ਦੀ ਬਦਲਾਵ ਮੇਂ ਅਤੇ ਦੁਆਰਾ ਦਾ ਦਧਾਤੂ
(ii) ਕਲਾਸਕੀ ਦਾਈਰਾਖ਼ਤ ਦੇ ਸੰਪਰਕ ਦੇ ਕੋਲ ਵਾਦਾ ਅੱਠ ਮਾਹਵਾਰ ਦੀ ਸੰਸਕੱਟ ਕਾਰਨ ਆਧਾਰਤ ਹੈ।
(iii) ਸੇਵਾ-ਨੀਤੀ ਦੀ ਪ੍ਰਵਾਸ ਪਰਵਾਰ ਕੀਤੇ ਦੇਖਾਤੇ ਵਿਰਾਸਤੀ ਸੇਵਾ-ਨੀਤੀ ਨੂੰ ਦੁਆਰਾ ਕਾਰਨ ਕਾਉਂਚ ਕੀਤੇ
(iv) ਕਲਾਸਕੀ ਦਾਈਰਾਖ਼ਤ ਵਿਸ਼ੁਵ ਵਿੱਚ ਦਾ ਅਧਾਰਤ ਵਿਸ਼ੁਵ ਵਿਚ ਸੁਧਾਰਤ।
(v) ਕਲਾਸਕੀ ਦਾਈਰਾਖ਼ਤ ਦੇ ਸੰਪਰਕ ਦੇ ਅੱਠ ਮਾਹਵਾਰ ਦੀ ਸੰਸਕੱਟ ਕਾਰਨ ਆਧਾਰਤ ਹੈ।
(vi) ਕਲਾਸਕੀ ਦਾਈਰਾਖ਼ਤ ਦੇ ਸੰਸਕੱਟ ਦੀ ਪ੍ਰਵਾਸ ਵਿਚ ਸ਼ੁਸਕ ਦੇ ਵਿਸ਼ੁਵ ਵਿਚ ਸੁਧਾਰਤ。
(vii) ਅੱਠ ਮਾਹਵਾਰ ਦੀ ਸੇਵਾ-ਨੀਤੀ ਦੀ ਮਾਰਿੱਡ ਵਿਚ ਸਭਿਆਚਾਰ ਸੁਧਾਰਤ।

ਪ੍ਰਾਪਤ ਪ੍ਰਦਾਨ : ਕਲਾਸਕੀ ਮਾਰਿੱਡ ਦਾ ਦਧਾਤੂ

(i) ਕਲਾਸਕੀ ਮਾਰਿੱਡ ਦੀ ਅੱਠ ਮਾਹਵਾਰ ਦੁਆਰਾ ਪੁਰਾਣ ਦੀ ਸੰਸਕੱਟ ਕਾਰਨ ਆਧਾਰਤ ਹੈ。
(ii) ਕਲਾਸਕੀ ਮਾਰਿੱਡ ਦੀ ਅੱਠ ਮਾਹਵਾਰ ਦੀ ਸੰਸਕੱਟ ਕਾਰਨ ਆਧਾਰਤ ਹੈ।
(iii) ਸੇਵਾ-ਨੀਤੀ ਦੀ ਸੰਸਕੱਟ ਕਾਰਨ ਆਧਾਰਤ ਹੈ।
(iv) ਕਲਾਸਕੀ ਦਾਈਰਾਖ਼ਤ ਵਿਸ਼ੁਵ ਵਿਚ ਸੁਧਾਰਤ।
(v) ਕਲਾਸਕੀ ਦਾਈਰਾਖ਼ਤ ਦੇ ਸੰਸਕੱਟ ਦੇ ਰੂਪ ਵਿਚ ਸੁਧਾਰਤ।
(vi) ਕਲਾਸਕੀ ਦਾਈਰਾਖ਼ਤ ਦੇ ਸੰਸਕੱਟ ਦੀ ਸੰਸਕੱਟ ਕਾਰਨ ਆਧਾਰਤ ਹੈ।
(vii) ਅੱਠ ਮਾਹਵਾਰ ਦੀ ਸੰਸਕੱਟ ਕਾਰਨ ਆਧਾਰਤ ਹੈ।
(viii) ਕਲਾਸਕੀ ਮਾਰਿੱਡ ਦੀ ਅੱਠ ਮਾਹਵਾਰ ਦੀ ਸੰਸਕੱਟ ਕਾਰਨ ਆਧਾਰਤ ਹੈ।

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REMOTE SENSING AND GIS

(1) General Knowledge and Current Affairs

(2) English Comprehension

(3) Numerical Ability

(4) Data Sufficiency
$\frac{1}{4}$laLÑr$^{1/2}$

laLÑr IkfgR; dk bfrgkl
\[ \frac{1}{4}v \frac{1}{2} \] _Xosn_ \_tqosZn_ lkeosn ,oa vFkoZosn dk IkekU; v/;uA
\[ \frac{1}{4}c \frac{1}{2} \] _Xosn ds&m"kI~] okd| uklnhj] laKkulwåksa dk v/;uA
\[ \frac{1}{4}l \frac{1}{2} \] dsu mifu"kn~ dk fo'ks"r v/;uA
\[ \frac{1}{4}n \frac{1}{2} \] jkek;k ,oa egkHkkjr dk laf[klr ltpj;A
\[ \frac{1}{4}j \frac{1}{2} \] j?kqoa"k] f"k'qikiyko"k] uS"k/kh;pfjr vknf egkdkO; dk laf[klr KkuA
\[ \frac{1}{4}j \frac{1}{2} \] LoluoklonÝýk] vflKkku'kdkqUry] mÝykjkekpfjr] e'PNdlVd vknf udkksa dk IkekU; KkuA
\[ \frac{1}{4}y \frac{1}{2} \] okYehtfd[d osn] O;k] dkfynkl] HkoHkwfr] ek] k] v'o'kks"k] dYg;k] ,oa 'kqdnso 'kkL=h vkn lalNpl dfos;ksa dk O;fdRlRo ,oa ÑfrRoA
\[ \frac{1}{4}o \frac{1}{2} \] laLÑr x| lkfgR; \&mRifŸk] fodkl ,oa fo'ks"krk,a rFkk laLÑr] & 'kSyhA

laLÑr O;kj.k ,oa Hkk"kkfoKku
\[ \frac{1}{4}v \frac{1}{2} \] izO;kgkj foospuA
\[ \frac{1}{4}c \frac{1}{2} \] laLÑr o.kZekyk ,oa /ofu;k]ksa dk oxhZdk;kA
\[ \frac{1}{4}l \frac{1}{2} \] laLÑr o.kksZPpkj,k] LFkkku ,oa iz;RuA
\[ \frac{1}{4}n \frac{1}{2} \] Loj] O;Œtu ,oa folxZ lflU/k;k]ksa dk IkekU; KkuA
\[ \frac{1}{4}j \frac{1}{2} \] 'kCn ,oa /kkqKku'kkdU;k] LFkkku ,oa iz;RuA
\[ \frac{1}{4}i \frac{1}{2} \] vteUr 'kCn & jke] gf] xq#f] fir] Qy] okf] e/kq] yrk] efr] unh] /ksq] ekr\'A
\[ \frac{1}{4}ii \frac{1}{2} \] gyUr 'kCn & jktu~] Hkor~] fo]fl~] fljr~] eul~] xPNr\~A
\[ \frac{1}{4}iii \frac{1}{2} \] lZuKekCn & loZ] rm~] fmuksa fy³xksa esa½] ,q"en~ ,oa vl\~A
\[ \frac{1}{4}v \frac{1}{2} \] dkj] ,oa foHkfDr;ksa dk IkekU; KkuA
\[ \frac{1}{4}vi \frac{1}{2} \] Nr~ izR; & 'kr\'] 'kkup~] ä] Ýok] Æorq] vuh;j] fàu~
\[ \frac{1}{4}vii \frac{1}{2} \] laLÑr vuqokn

ukV~]kkL=h, ,oa vyadkj lEcU/kh IkekU; v/;u
\[ \frac{1}{4}v \frac{1}{2} \] :id&[k,k] HksnA
\[ \frac{1}{4}c \frac{1}{2} \] uk;@ ukf;dk & y[k,k] ,oa Hksn fooj;kA
\[ \frac{1}{4}l \frac{1}{2} \] f'ooukFk ds vuqikj dkO; iz;kstu] dkO; y[k,k] 'kCn 'kfl;ka] jl Lo:lk ,oa Hksn foospuA
\[ \frac{1}{4}n \frac{1}{2} \] vuqizkl] ;ed] 'ys"k] miek] :id] mRlz[s[kk] vFkkZU;kl] foHkkouk] fo'ks"kksflDr ,oa dkO;fy³x vknFdkjksa dk IkekU; KkuA

xhrk ,oa uhfr dkO:
\[ \frac{1}{4}v \frac{1}{2} \] Jhen~Hkxon~xhrk] fjr; v/;k; dk fo'ks"k&v/;uA
\[ \frac{1}{4}c \frac{1}{2} \] Hkr'Zgfj jfpr uhfr'krd dk fo'ks"k&v/;uA

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SOCIOLOGY

SOCIOLOGY AS A SCIENCE:

Meaning, Origin and Subject matter of Sociology; Nature of Sociology as a Science; Perspectives in Sociology – Functional, Conflict and Interactionist; Classical Sociological Traditions - Comte, Spencer, Durkheim, Marx, Weber, Parsons, Merton.

BASIC CONCEPTS:

Society, Community, Association, Institution; Culture & Cultural Change; Social Groups- Primary, Secondary and Reference Groups; Social Structure, Function; Social Stratification-Caste, Class, Power; Social Mobility; Socialization; Status and Role, Role- conflict, Role- set; Norms and values - conformity and deviance.

TYPES OF SOCIETY AND INSTITUTIONS:


SOCIAL RESEARCH:

Meaning and Objectives; Research Design; Types of Research; Sampling and types; Techniques of data collection; Basic Statistics – Mean, Median, Mode.

SOCIAL CHANGE AND DEVELOPMENT IN INDIA:

Meaning and Types of Social Change; Theories of Change; Factors of Change; Processes of Change: Sanskritization, Westernization and Modernization; Development of Marginalized Communities: Scheduled Castes, Scheduled Tribes, Backward Classes, Women.
STATISTICS

Definitions, Scope and importance of Statistics, qualitative and quantitative data, discrete and continuous data, Primary and Secondary data, classification and Tabulation, frequency distribution and their graphical and diagrammatic representations, Measures of central tendency Measures of Dispersion, partition values, Moments (raw & central moments) up to order four. Skewness & Kurtosis, Bivariate data: Scatter Diagram, product moment correlation coefficient and its properties. Spearman’s rank correlation coefficient. Intra class correlation coefficient and correlation ratio. Coefficient of determination.

Regression lines, regression coefficient and their properties. Principle of least squares. Fitting of a straight line, parabola, logarithmic and exponential curve by the method of least squares. Partial & Multiple correlation coefficient for three variables only (Derivations & simple illustrations).


The concept of sampling distribution, sampling distribute of t & F, properties of these distribution and their inter relations.

Estimation: Point and interval estimation, Unbiasedness, consistency, efficiency & sufficiency. Methods of estimation: Methods of moments and maximum likelihood, properties of M.L.E’s (with proof). Testing of Hypothesis: Statistical Hypothesis, Null & alternative Hypothesis, Simple & Composite Hypothesis, two types of error, Critical region, Power of test, level of significance. Best Critical region, Test of Significance: One tailed and two tailed tests, test of significance for large samples for attributes & variable, proportions and means, single sample, two samples (both paired & independent). Small sample tests based on t, F & $\chi^2$ test, confidence interval for single mean, difference of means & variance (only for normal case), Neyman-Pearson Lemma.

Complete enumeration Vs Sample enumeration; advantages and disadvantages of sample survey, Objectives of sampling and Non sampling errors, types of sampling. Probability, purposive and mixed sampling, random numbers. Simple random sample from finite population mean, sampling variance as an unbiased estimate of population variance, merits & demerits of SRS.

Meaning of Stratification, Method of Stratified sampling & its advantages and disadvantages. Mean and variance of Stratified sampling Proportional allocation optimum allocation, Comparison of stratified random sampling with SRS. Systematic Sampling. Ratio & Regression method of estimation under SRS. Cluster sampling (Equal cluster size) mean & Variance.

Analysis of variance for one way & two way classification, principles of design of experiment, concept & analysis of completely randomized design, randomized block design.
Demographic Methods:- Source of demographic data-census, register, adhoc survey hospital records, demographic profiles of Indian census, Life table, crude, death rates, mortality rate, crude birth rate, general fertility rate, total fertility rate, gross reproduction rate, net reproduction rate.

Index number-its definition, applications of index number, price relative and quantity or volume relative, link and chain relative problem involved in computational of index numbers, use of averages, simple aggregative and weighted average methods, Laspeyre’s Paache’s and Fisher’s Index number, time and factor reversal tests of index number, Consumer price index.

Time Series analysis:- Economic time series, its different components, additive and multiplicative models, determination of trend, growth curves, analysis of seasonal fluctuations, construction of seasonal indices.

General theory of Control charts, control limits, X and R-charts, P-charts and C Chart.

Principle of acceptance sampling:- Problem of lot tolerance, stipulation of good and bad lots, producers and consumer risks, single and double sampling plans their OC functions, Concept of AQL, LTPD, AOQL, average amount of inspection and ASN function. Computational techniques: Difference tables and methods of interpolation, Newton and Lagrange’s methods of interpolation, Divided differences, numerical differentiation and integration, Trapezoidal rule, Simpson 1/3 formula, interactive solution of non-linear equations.

Definition of General LPP, Formulation problem of LPP, graphical and simplex method of solving an LPP, duality of LPP.
ZOOTOLOGY

**Life and Diversity of Invertebrates:**
Salient features and classification upto class level from Protozoa to Echinodermata.

**Life and Diversity of Chordates:**
Salient features and classification upto class level from Hemichodates to Mammals.

**Cell biology and Genetics:**
Cytoplasmic organelles; Cell division; Chromosome structure and function; Structural and numerical changes in chromosomes.

**Evolution:**
Origin of life; concepts of evidences of organic evolution; Neo-Darwanism and modern concepts of Evolution; speciation.

**Comparative Physiology in Animals:**
Nutrition, feeding and digestion; Respiration; Excretion and Osmoregulation; Circulation; Endocrinology and Reproductive Biology.

**Ecology:**
Ecosystem concepts and Energetics; Human activity and animal resources.

**Parasitology:**
Structure of virus with special reference to bacteriophage; AIDS, Rabies, Tuberculosis, Bacillary dysentery; GIT as Habitat for parasites; Host-parasite specificity.

**Economic Zoology:**
Aquaculture with reference to pearl culture; induce breeding; Bee Venom; Uses of honey; enemies of honey bee; life-cycle of silk worm moth; Breeding and diseases pf poultry and cattle; Poisonous snakes and venom; Insect pests and stored grains; In-vitro fertilization; Application and biotechnology with reference to Biofertilizers, Bioinsecticides and Antibiotics.
LIBRARY & INFORMATION SCIENCE (B. Lib. I.Sc.)

(a) Basic understanding of different subject
(b) Aptitude for Libraries
(c) Basic Computer & IT skills
(d) Basic English
LAW (LL. B PROFESSIONAL) 3 YEARS

1 Legal Aptitude
2 General English
3 General Knowledge
POST GRADUATE DIPLOMA IN BUSINESS MANAGEMENT

The test is to be designed to measure a person’s general Aptitude covering the following test areas:-

**Test Area/s**

1. Language Comprehension
2. Data Analysis and Sufficiency
3. Mathematical Ability
4. Intelligence and Critical Reasoning
5. General Awareness

The test will be on the pattern of Management Aptitude Test conducted by All India Management Association (AIMA).
PG DIPLOMA IN HUMAN RIGHTS AND DUTIES EDUCATION

General Awareness about Constitutional Law of India
(i) Preamble
(ii) Features of Constitution of India
(iii) Fundamental Rights
(iv) Directive Principles
(v) Powers and position of President of India
(vi) Powers and position of Governor of the State
(vii) Appointment & Powers of Chief Minister of State

International Law and Human Rights
(i) Documents on Human Rights
   (a) Universal Declaration of Human Rights
   (b) International Covenant on Civil and political Right
   (c) International Covenant on economic, social and Cultural Right

(ii) National Human Rights Commission
   (a) State Human Rights Commission
   (b) Non-governmental organization

(iii) United Nations organisation & its organs

POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS (PGDCA)

1  (A) Series-Numeric and Alphabetic
   (B) Logical Reasoning 35%

2  English- Synonyms, Antonyms, Identification of Grammatical Errors etc 15%

3  Arithmetic including Percentage, Interest, Profit and Loss, Time and Work, Height and Distance, Stock and Shares, Ratio and proportion, Average, Fraction etc. and Mathematics Covering Trigonometry, Geometry, Algebra, Calculus etc. 50%
SAMPLE QUESTIONS FOR JUET- IN VARIOUS PROGRAMMES OF STUDY:

BIOTECHNOLOGY AND BIOCHEMISTRY
1. If you remove all of the functional groups from an organic molecule so that it has only carbon and hydrogen atoms, the molecule becomes a _____ molecule.
   a) carbohydrate  b) carbonyl  c) carboxyl  d) hydrocarbon
2. Animals store glucose in the form of
   a) amylase  b) glycogen  c) glycerol  d) cellulose  e) guanine
3. In proteins, elements of secondary structure combine to form a(n)
   a) domain  b) motif  c) alpha helix  d) beta sheet  e) chaperone
4. What is the limitation of Ti plasmid
   a) Cannot be used for broad leaved plants  b) Cannot be used for fruit bearing plants
   c) Cannot transmit prokaryotic genes  d) Does not infect cereals
5. Which of the following molecules transfers the information from nucleus to cytoplasm?
   a) DNA  b) mRNA  c) tRNA  d) Protein

BOTANY
1. Which of the following is not pathogenic to humans?
   a) Yersinia  b) Vibrio  c) Shigella  d) Azotobacter:
2. An open reading frame is one that has:
   a) no start codon and no stop codon  b) a start codon and a stop codon
   c) no start codon but a stop codon  d) a start codon but no stop codon
3. Those fossils which preserve both external and internal structures are called:
   a) Compression fossils  b) Incrustation fossils
   c) Impression fossils  d) Petrification fossils
4. Which among the following has CAM?
   a) Ficus religiosa  b) Tamarindus indica
   c) Aloe vera  d) Withania somnifera
5. Soil formation processes are called:
   a) Geopedogenesis  b) Pedogenesis
   c) Thermopedogenesis  d) None of the above

BUDDHIST STUDIES
1. The Buddha was born at:
   i. Kapilavastu  ii. Nalanda  iii. Lumbini  iv. Pataliputra
2. The first Buddhist Council was patronized by:
3. Find the odd man out:
4. Ashoka was the son of:
   i. Bindusara  ii. Bimbisara  iii. Chandragupta  iv. None of these
5. Nalanda Mahavihara was established by:
   i. Kumaragupta  ii. Samudragupta  iii. Ashoka  iv. Devagupta

B.P.Ed
1. Dimension of Cricket Boundary from the middle of the Pitch is:
   (a) 37 yards  (b) 75 yards  (c) 65 yards  (d) 55 yards
2. Bhai Chung Bhutia is associated with:
   (a) Hockey  (b) Judo  (c) Boxing  (d) Football
3. Term “Koka” is associated with:
   (a) Baseball  (b) Handball  (c) Judo  (c) Wrestling
4. Duration of Football Match (Men) is:
   (a) 110 Minutes  (b) 90 Minutes  (c) 100 Minutes  (d) 120 Minutes
5. The term “Wazzari” is associated with:
   (a) Judo  (b) Kabbadi  (c) Wrestling  (d) Weight Lifting
CHEMISTRY
1. The compound which gives the most stable carbonium ion on dehydration is
   (a) \((\text{CH}_3)_2\text{CHCH}_2\text{OH}\) (b) \((\text{CH}_3)_2\text{COH}\)
   (c) \(\text{CH}_3\text{CH}_2\text{CH}_3\text{CH}_2\text{OH}\) (d) \(\text{CH}_3\text{CHOHCH}_2\text{CH}_3\)
2. In the following compounds

\[
\begin{array}{cccc}
\text{I} & \text{II} & \text{III} & \text{IV} \\
\text{H} & \text{N} & \text{N} & \text{O} \\
\end{array}
\]

The order of basicity is
   a) IV>I>III>II  b) III>I>IV>II  c) II>I>III>IV  d) I>III>II>IV
3. The product of the reaction of ethyl benzoate with 2 equivalents of methyl magnesium bromide is

\[
\begin{array}{cccc}
\text{a) } & \text{b) } & \text{c) } & \text{d) } \\
\end{array}
\]

4. Consider an endothermic reaction, \(X \rightarrow Y\) with activation energies \(E_b\) and \(E_f\) for backward and forward reactions respectively. In general,
   (a) There is no definite relation between \(E_b\) and \(E_f\) (b) \(E_b = E_f\)
   (c) \(E_b > E_f\) (d) \(E_b < E_f\)
5. pH of 0.005 M aqueous solution of sulphuric acid is nearly
   (a) 2.22  (b) 0.125  (c) 2  (d) zero

COMPUTER SCIENCE & IT / M.Sc IT / PGDCA
1. a-bba-bbaab-
   a) aba  b) aab  c) bab  d) bba
2. The expression \(ax^2 + bx + c\) has the same sign as of “a” if
   a) \(b^2-4ac>0\)  b) \(b^2-4ac=0\)  c) \(bb^2-4ac = 0\)  d) “b” and “c” have the same sign as “a”
3. If the diameter of the circle is doubled, the area becomes
   a) Twice  b) Thrice  c) Four Times  d) Eight Times  e) None of these
4. Heredity: Training
   a) Cultivated : Acquired  b) Natural : Hobby  c) Instinct : Habit  d) Excuse : Denial
5. In a business, A, B and C invested Rs. 500/-, Rs. 225/- and Rs. 300/- respectively. If the profit earned is Rs.410/- what will be the share of A?
   a) Rs. 200/-  b) Rs. 180/-  c) Rs. 120/-  d) None of these.
COMMERCE

1. A demand curve which takes the form of a horizontal line parallel to the quantity axis illustrates elasticity which is
   a) Zero  b) Infinite  c) Less than 1  d) 1

2. An agreement enforceable by law is called
   a) Voidable contract  b) Void agreement  c) Valid contract  d) Legal agreement

3. The accounting equation is in accord with the fundamental concept of accounting
   a) Money measurement  b) Going concern  c) Realisation  d) Dual aspect

4. Which one of the following ratio is the indicator of the long-term solvency of the firm
   a) Acid test ratio  b) Debt-equity ratio  c) Time interest earned ratio  d) None of these

5. Vouching implies
   a) Inspection of receipts  b) Examination of vouchers to check authenticity of records
   c) Surprise checking of accounting records  d) Examining the various assets

DOGRI

1- ^Mksxjk iSaNh* dfork ns jpu dkj u &
   A½ ijekuan vyeLr  B½ fd"ku LeSyiqjh
   C½ jke ukFk 'kkL=h  D½ jke yky 'kekZ

2- Mksxjh ns iSg~ys =S miU;kl u&
   A½ /kkjka rs /kwM+ka] 'kkuks rs gkM+]csM+h]jiÜku  B½ QqYy fcuk Mkyh]
   'kkuks] cnhl
   'kkuks] dSn~nh

3- ^=qV~Vh nh Mksj* miU;kl p fpÜkjr okrkoj.k ,s&
   A½ ykSg~ds "kSg~jS nk  B½ xzka,a Fkkg~jsa nk
   C½ egkuxjsa nk  D½ /kkjsa&tkM+sa nk

4- ^eu djS mM~Mus xh] rka ch /kjrh ij cT>k j*eka] cl] pwj;ka [kank pyka] .g~
   fexh eatwj usbZaA**ks'j ns "kk;j u &
   A½ f"ko jke ^nhi* B½ osn iky ^nhi*
   C½ jke ukFk 'kkL=h  D½ y{eh ukjkl;:k

5- ^drZO;* ,dkadh nk ukVd nk uka ,s&
   A½ vej  B½ jkts"k  C½ vthr  D½ eaq"kh

ECONOMICS

1. The key phrase that characterises the 11th Five Year Plan is
   a) globalisation  b) industrialization  c) inclusive growth  d) capitalism

2. Which of the following does not form part of the Human Development Indicator?
   a) Literacy  b) Longevity  c) Income  d) Environment

3. Equilibrium of an economy need not be at full employment level who said this?
   (a) Adam Smith  (b) Ricardo  (c) Karl Marx  (d) Keynes

4. The Greek work ‘FISC’ refers to
   (a) Private Finance  (b) Public Finance  (c) Public Treasury  (d) Both Public and Private Finance

5. Which of the following transactions is a debit in the current account of the BOP?
   (a) Export of merchandise, (b) export of services, (c) gift to foreigners, (d) gift from foreigners.
EDUCATION (M.A.)
1. “Educational psychology describes and explain the learning experiences of an individual from birth through old age” This definition is given by
   a) Skinner     b) Peel        c) Cattell    d) Crow and Crow
2. The community can be uplifted with the help of an instrument of
   a) Punishment  b) Discipline   c) Training   d) Education
3. Acceleration, ability grouping and promotion in class is required for
   a) Gifted children b) Mentally retarded Children
c) Visually impaired d) Delinquent Children
4. National Literacy Mission was launched in the year
   a) 1985        b) 1986        c) 1987      d) 1988
5. Which Veda is the oldest Veda
   a) Sama Veda   b) Rig Veda     c) Atharva Veda d) Yajurveda

ELECTRONICS
1. Which region of the bipolar transistor is made physically large:
   a) Emitter b) base c) collector d) none of these
2. For better stability of the amplifier circuit, value of stability factor ‘S’ must be
   a) large b) as small as possible c) 1 d) 0
3. Effect of negative feedback voltage is
   a) An increase in output resistance b) An increase in input resistance
c) Increase in gain d) decrease in output resistance
4. In an FM signal, there are
   a) No sidebands b) Two sidebands c) Infinite number of sidebands d) None of these
5. What kind of modulation is used for sound portion of commercial broadcast TV transmission
   a. FM   b. AM   c. DM   d. PCM
**ENVIRONMENTAL SCIENCES:**

1. In any ecosystem the green plants are called autotrophs, because
   a) they prepare oxygen b) they prepare food in their body
   c) they provide food to animals d) they utilize simple inorganic substances to prepare their food.

2. Tracheids is a conducting tissue and is an element of xylem, the structure is
   a) thin walled elongated latex cell b) parenchymatous cell
   c) tube like elongated thin cell d) elongated tube like dead cell

3. Indiscriminate killing of deer in Sunderban area will cause
   a) profuse growth of grasses and bushes b) scarcity of foods for tigers
   c) sever the food chain relating to tigers d) sever the food chain of crocodile

4. The honey bee is a social insect because
   a) they do cause some benefit for our society b) they live in our society
   c) they form a a society with an administrative head d) they live together but never depend on others

5. Epinephrine is a hormone secreted from the
   a) Thyroid gland b) Adrenal gland c) Prostate gland d) Pancreatic gland

**ENGLISH**

1. Which play of Shakespeare is not a Tragedy
   a) Othello b) King Lear c) Hamlet d) The Tempest

2. What do the weird sisters promise to Macbeth?
   a) The kingdom of Scotland b) Everlasting life
   c) Victory in battle d) A large family

3. What is the last thing the audience of *A Doll’s House* hears?
   a) A door slamming b) A gunshot c) A train whistle d) A dog barking

4. The term Positivism was coined by:-
   a) Herbert Spencer b) J. S. Mill c) Jeremy Bentham d) Auguste Comte

5. ‘Beauty is truth, truth beauty’ is taken from Keats’ :
   a) Ode to a Nightingale b) Ode on Melancholy
   c) Ode to Autumn d) Ode on a Grecian Urn.

**FOOD SCIENCE & TECHNOLOGY**

1. Radio activity is measured by
   a) florimeter b) calorimeter c) spectrophotometer d) Geiger Muller counter

2. Main energy giving nutrients are
   a) vitamins, minerals & water b) Fiber, CHO’s & fats
   c) Fats, carbohydrates & proteins d) all of the above

3. pH value of blood plasma ranges between
   a) 7.8-8.0 b) 7.35-7.45 c) 8.0-8.35

4. The process of stiffening of the meat immediately after the slaughter is called
   a) muscle stiffening b) muscle hardening c) rigor mortis d) rigor fortis

5. Yoghurt is the preparation with the action of two organisms namely
   a) *S. thermophilus* & *L. bulgaricus* b) *S. cremoris* & *Leuconostoc citrovorum*
   c) *S. diacetilactis* & *L. dextranicum* d) None

**GEOGRAPHY**

1. A science which studies of weather and atmosphere changes is known as
   a) Geology b) Meteorology
   c) Metaphysiscs d) Zoology

2. The average height of Siwalik is
3. Which of the following current affects summer monsoon
   a. Peru current   b. Brazil current
c. Elnino current   d. East Australian current

4. Which of the following language recently includes in the constitution of India
   a. Dogri   b. Telugu
c. Kashmiri   d. Naga

5. The discontinuity between Mantle and core is known as
   a. Gutenberg discontinuity   b. Mohorovicic discontinuity
c. Conard discontinuity   d. All the above

**GEOLOGY**

1. Thermal or regional metamorphism of limestone produces
   a) Hornfels   b) Quartzite   c) Marble   d) Carbonatite

2. Kimberlite Diamond deposits is an example of
   a) Gravitational accumulation   b) Dissemination
c. Immiscible liquid segregation   d) Residual liquid injection

3. Nappe is a
   a) Reverse fault   b) Upfold   c) Thrust fold   d) Recumbent fold

4. The substance in which the velocity of light of a given wavelength does not vary with direction are called as
   a) Amorphous   b) Isotropic   c) Anisotropic   d) Crystalline

5. “Landscape is a function of structure, process and stage”, the statement is given by
   a) Hutton   b) Penck   c) Davies   d) Playfair

**HINDI**

1. fdl dfo dks eSfKyd dksfdy dgk tkrk gS
   A. vehj [kqjks fo]kifr C. ujifr ukYg D. pUnjcjnkBZ

2. i`Fohjkt jklks ds jpf;rk dk uke D;k gS
   A. txfud B. uyflag C. pUnjcjnkBZ D. dqrqCku

3. euksfodkjksa ij vk/kkfjr vkpk;Z jkepUæ `kqDy dk dksU&lk fucU/k gS
   A. dfork D;k gS B. rqylhnkl C. tk;lh D. Øks/k

4. ^`kdqUryk;u* esa pij[ks okyh cqf<+;k fdl dk Árhd gS
   A. Ád`fr B. laLd`fr C. fu;fr D. foifÝk

5. ^fnYyh* esa ,d ekSr dgkuh esa fdl dh ‘ko;k=k fudyrh gS
A. usrk  B. IsB  C. eU=h  D. ukSdj’kkg

HISTORY
1. Which of the following cultures the Harappan civilization belongs to:
   a) Chalcolithic culture  b) Neolithic culture  c) Bronze age culture  d) Iron age culture
2. Who among the followings minted gold coins in India for the first time?
   a) Kushanans  b) Indo Greeks  c) Satavahanas  d) Guptas
3. Muhammad Tughluq transferred his capital from Delhi to:
   a) Warangal  b) Dinanagar  c) Devigiri  d) Devgarh.
4. The founder of Brahmo Samaj was:
   a) Keshava Chandra Sen  b) Raja Ram Mohan Roy  c) Devendra Nath Tagore  d) None of these.
5. President Wilson of America analyzed his ‘Fourteen Points’ as basis of world peace in the U.S Congress in:
   a) May, 1918  b) May, 1919  c) May, 1920  d) None of these.

HOME SCIENCE
1. It is obtained from the leaves of pineapple plant
   a. sisal  b. abaca  c. pina  d. coir
2. Pyridoxine, pyridoxal and pyridoxamine are active forms of
   a. Vit B 12  b. Vit B 6  c. Vit B 2  d. None of the above
3. Measuring actual performance, pinpointing areas of deviation are the processes of
   a. supervising  b. controlling  c. reviewing  d. none of the above
4. During the decades ___________ under British Govt, Home Science was introduced in schools and colleges in India.
   a. 1940-60  b. 1930-50  c. 1920-40  d. None of the above
5. Philosophy of extension can be expressed as
   a. Self help  b. Cooperative effort  c. Never ending process  d. All of the above

HUMAN GENETICS
1. The prokaryotic cell lacks
   (a) Nuclear envelope & DNA  (b) Nuclear envelope & plastids  
   (c) DNA & mitochondria  (d) Cell membrane & nucleus
2. Who reported the presence of nucleic acid in Pus cells
   (a) Griffith  (b) Miescher  (c) Avery  (d) Hershey & chase
3. The “energy currency” of plants & animals is
   (a) NADP  (b) ATP  (c) Chlorophyll  (d) Calorie
4. Which of the following is the main cellular fuel?
   (a) Lactose  (b) Galactose  (c) Glucose  (d) Fructose
5. Who discovered the structure or molecular model of DNA
   (a) Edle man and Porter  (b) Holley, Nirenberg & Khorana  
   (c) Urey and Miller  (d) Watson and cridc

KASHMIRI:
M.Ed:
1. The all round development of personality can be achieved through
   a) Instruction   b) Teaching   c) Literacy   d) Education
2. Community life provides
   a) Insecurity   b) Tension   c) Protection   d) Slavery
3. The overt behavior is studied with the help of
   a) Observation   b) Introspection   c) Experimental Method   d) None of the above
4. Creativity as an objective has been introduced in
   a) RCEM approach   b) Bloom’s Taxonom   c) Herbartian approach   d) Robert Mager’s approach
5. The role of NCERT is to look into
   a) School Education   b) College Education   c) University Education   d) All the above

M.Lib.I.Sc
1. Accession Number in AACR-2 is written
   a) Along with call number   b) At the fourth horizontal line from above
   c) In the first line   d) It is not written at all
2. Which is the third Law of Library Science
   a) Every book its reader   b) Every reader his/her book
   c) Save the time of reader   d) Books are for use
3. SOUL Stands for
   a) Software Organizing University Librarianship   b) Software of University Libraries
   c) Software Organizing University Libraries   d) Software of Unique Librarianship
4. World of Learning is :
   (a) A Bibliography   (b) An Abstract   (c) An Encyclopedia   (d) A Directory
5. WIPO stands for
   (a) World Information and Patent Organization   (b) World Intellectual Property Organization
   (c) World International Property Organization   (d) World Information Protection Organization
M.P.Ed
1. Points are awarded in which game?
   (a) Kho-Kho (b) Kabbadi (c) Basketball (d) Tennis

2. Which is rich source of Vitamin C?
   (a) Milk (b) Eggs (c) Citrus Fruits (d) Green vegetables

3. Which is our National Game:
   (a) Kabbadi (b) Cricket (c) Football (d) Hockey

4. Dhan Raj Pillai is associated with:
   (a) Athletic (b) Basketball (c) Hockey (d) Football

5. The Length of Cricket Pitch is:
   (a) 22 Yards (b) 23 Yards (c) 25 Yards (d) 27 Yards

MATHEMATICS
1. The double point of the curve $2x^6 - 27x^4 - 81y^2 = 0$ is
   a) (3,0) b) (-3,0) c) (0,0) d) (3,3)

2. Let $A = \{1,2,3,\}$ and $R = \{(1,1), (1,2), (2,1), 2,2\}$. Then $R$ is a relation which is
   a) Symmetric but neither reflexive nor transitive  
   b) symmetric and transitive but not reflexive 
   c) symmetric and reflexive but not transitive 
   d) none of the above

3. Which of the following is not a subgroup of the group of all real numbers under addition
   a) the set of all rational numbers 
   b) the set of integers 
   c) the set of even integers 
   d) the set of even integers

4. Variance of the Binomial distribution is
   a) npq b) np + q c) nq + p d) np/q

5. Let $A$ and $B$ be $2 \times 2$ matrices of the complex numbers. Which of the following is false
   a) $A^{**} = A$ b) $(A + B)^* = A^* + B^*$ c) $(AB)^* = A^*B^*$ d) $(\alpha A)^* = \alpha A^*$

MICROBIOLOGY
1. Which of the following procedures can be used to isolate a pure culture of a bacterium from a mixture?
   a) streak plating b) dilution plating c) enrichment culture d) All the above

2. Single cell protein refers to
   a) Use of microbes as food/feed  
   b) Protein rich in essential amino acids 
   c) Protein which is made of single cell 
   d) None of the above

3. In proteins, elements of secondary structure combine to form a(n)
   a) domain b) motif c) alpha helix d) beta sheet e) chaperone

4. What is the limitation of Ti plasmid
   a) Cannot be used for broad leaved plants b) Cannot be used for fruit bearing plants 
   c) Cannot transmit prokaryotic genes 
   d) Does not infect cereals

5. Which of the following molecules transfers the information from nucleus to cytoplasm?
   a) DNA b) mRNA c) tRNA d) Protein

MUSIC
1. Which of the following is the seasonal raga?
   a) bhopali b) darbari c) deskar d) miyan malhar

2. Which taal is played with sadra gayaki?
1. Which one the following pair of taals is a 16 matra pair?
   a) tilwara-teentaal  b) char taal-jhaptaal  c) teentaal-rupaktaal  d) soortaal-teentaal

2. Which year was Pt. Vishnu Narayan Paluskar born in?
   a) 1875  b) 1878  c) 1872  d) 1871

3. How many categories have Indian instruments been divided into?
   a) 4  b) 3  c) 2  d) 5

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**PHYSICS**

1. Volume element in spherical polar coordinates is given by:
   (a) $r^2 \sin \theta \, dr \, d\theta$
   (b) $r^2 \sin^2 \theta \, dr \, d\theta \, d\phi$
   (c) $r^2 \sin \theta \, dr \, d\theta \, d\phi$
   (d) $r^2 \sin^2 \theta \, dr \, d\theta \, d\phi$

2. The Laplace equation is
   (a) $\Delta^2 V = -\rho/\varepsilon_0$
   (b) $\Delta^2 V = -4Z\rho$
   (c) $\Delta^2 V = -4Z\sigma$
   (d) $\Delta^2 V = 0$

3. In Young’s double slit experiment, a maximum is obtained when the path difference between the interfering waves is:
   (a) $n\lambda / 2$
   (b) $n\lambda$
   (c) $(2n+1)\lambda / 2$
   (d) None of the above

4. In case of a potential step of height $V_0$, if a particle of energy $E < V_0$, the transmittance is:
   (a) zero  (b) finite non-zero  (c) infinite  (d) 1

5. A plane cuts intercepts 3a, 2b, 4c. The miller indices of this plane are:
   (a) (3 2 4)  (b) (4 6 3)  (c) (6 4 8)  (d) None of the above

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**POLITICAL SCIENCE**

1. International Politics is the study of:
   a) states and their relations  b) regional and international organizations
   c) nongovernmental organizations and non-state actors  d) all the above

2. One of the following cannot be identified with old/classical diplomacy:
   a) open and democratic  b) secret and confidential
   c) European oriented  d) trained and professional diplomats

3. The ‘systems’ approach to study politics is given by:
   a) David Easton  b) Almond  c) Deutsch  d) none of the above

4. Who is a known behaviouralist among the following political scientists?
   a) Headley Bull  b) David Easton  c) Talcot Parsons  d) Wright Mills

5. Who is regarded the father of Political Science?
   a) Plato  b) Aristotle  c) Machiavelli  d) none of the above

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**PSYCHOLOGY**

1. First research laboratory in Psychology was established to study

2. The type of research determines the strength of a relationship between the variables:
   a. Experiment  b. Survey  c. Quasi experiment  d. Correlational study

3. Choose the strongest correlational coefficient
   a. +.75  b. -.99  c. +.01  d. -.01

4. Which of the following theories is most concerned with explaining the consistency of behaviour
a. Freudian theory  
b. Humanistic theory  
c. Trait Theory  
d. Cognitive Theory

5. Aron Beck Cognitive theory focuses on
   
a. Dream interpretation  
b. Conditioning  
c. Negative schema  
d. None of the above
1. Which of the following is not a wind instrument
   a) Flute   b) Nadaswaram  c) Rabab D) Shehnai

2. Geophysics deals with
   a) History of the earth. b) Physics of the earth
c) Searching the causes of the Physics calamity on the  d) All the above

3. In each of the following questions, a word is given followed by four other words marked a,b,c and d one of which is nearest in meaning with the given word.

   SAGACIOUS
   a) Multigenerous   b) Chackle c) Secession d) Exude

4. Successive discounts of 10%, 12% and 15% amount to a single discount of
   a) 35.28%  b) 37%  c) 36.68 % d) None of these

5. The following questions contain a problem followed by two statements marked as (i) and (ii). Your task is to find out whether the statement are sufficient to solve the problem. Indicate your answer as:
   a) if you can get the answer on the basis of (i) alone but not from (ii) alone
   b) if you can get the answer on the basis of (ii) alone but not from (i) alone
c) if you can get the answer from (i) and (ii) together, but neither statement by itself suffices
d) if statements (i) alone and statement (ii) alone suffices
e) if you cannot get the answer from statements (i) and (ii) some extra information required.
What is A+B+C?

(i) A + B = 4  
(ii) B + C = 3
SOCIETY

1. Who among the following is of the view that sociology is a science that attempts an interpretative understanding of social action?
   (a) Auguste Comte (b) Emile Durkheim (c) Max Weber (d) Karl Marx

2. Among the following who has used the concept of ‘Organic Analogy’.
   (a) Herbert Spencer (b) Emile Durkheim (c) Levi-Strauss (d) Radcliffe-Brown

3. Which of the following is not a type of research design?
   (a) Exploratory (b) Content Analysis (c) Descriptive (d) Experimental

4. Match the following and tick the correct answer in the given Code.
   
   List I (Studies on Family) List II (Authors)
   (A) Household Dimension of the Family (i) M.S. Gore
   (B) Some Aspects of Family in Mahuva (ii) A. M. Shah
   (C) Family and Kinship among Pandits of Rural Kashmir (iii) I.P. Desai
   (D) Urbanization and Family (iv) T. N. Madan

5. The process by which a caste adopts the habits, customs and rituals of a higher caste is known as:
   (a) Imitation (b) Identification (c) Acculturation (d) Sanskritisation

STATISTICS

1. Weighted mean of first ‘n’ natural numbers with weights as the corresponding numbers is
   a) \( \frac{n(n + 1)}{2} \)  b) \( \frac{(n + 1)}{2} \)  c) \( 2n + 1 \)  d) \( \frac{(n + 1)(2n + 1)}{6} \)

2. In a single throw with two dice the number whose probability is minimum is
   a) 12  b) 11  c) 10  d) 9

3. Which of the following are true statements about sampling?
   a) Careful analysis of a given sample will indicate whether or not it is a random.
   b) Sampling error implies an error, possibly very small but still an error, on the part of the surveyor.
   c) Data obtained while conducting a census are always more accurate than data obtained from a sample, no matter how careful the design of the sample
   a) I only  b) II only  c) III only  d) None of these

4. Which one of the following is true
a) \[ \text{Var}(\bar{y}_{st R}) \geq \text{var}(\bar{y}_{st Ney}) \geq \text{Var}(\bar{y}_{st prop}) \]
b) \[ \text{Var}(\bar{y}_{st R}) \leq \text{var}(\bar{y}_{st Ney}) \leq \text{Var}(\bar{y}_{st prop}) \]
c) \[ \text{Var}(\bar{y}_{st R}) \geq \text{var}(\bar{y}_{st prop}) \geq \text{Var}(\bar{y}_{st prop}) \]
d) \[ \text{Var}(\bar{y}_{st R}) \leq \text{var}(\bar{y}_{st Ney}) \leq \text{Var}(\bar{y}_{st prop}) \]

5. Components of Time Series are
   (a) Trend, Seasonal and random Components
   (b) Trend, Cyclical and Seasonal Components
   (c) Trend, Irregular, Seasonal and Cyclical Components
   (d) Trend Non-random, Cyclical and Unseasonal Components

**URDU**

1. آیک چیز کے لئے ضروری ہے یا نہیں؟
   (a) Large intestine (b) Liver (c) Blood  (d) Blood and cerebrospinal fluid

2. اٹرلےٹ انکٹ کا لیٹن ء ہے?
   (a) Echinoidea (b) Ophiuroidea (c) Asteroidea  (d) Holothuroidea

3. نیچے آتے ہیں برہنہ کے سوئیٹ ہے?
   (a) centrosomes (b) lysosomes  (c) microsomes (d) mesosomes

4. جہاز کے چنلوار ہے?
   (a) nephrostome (b) endoderm (c) nephron  (d) mesoderm

5. ساکلے تا ہے?
   (a) Macaca mulatta  (b) Homo-sapiens  (c) Hemdatylus  (d) Naja-Naja

**ZOOLOGY**

1. *Trypanosoma gambiense* is found in
   (a) Large intestine (b) Liver (c) Blood  (d) Blood and cerebrospinal fluid

2. Aristole’s lantern occurs in
   (a) Echinoidea (b) Ophiuroidea (c) Asteroidea  (d) Holothuroidea

3. The following are called “suicidal bags”
   (a) centrosomes (b) lysosomes  (c) microsomes (d) mesosomes

4. Vertebrate kidney develops from
   (a) nephrostome (b) endoderm (c) nephron  (d) mesoderm

5. Suckers in *Taenia solium* are the organs for
   (a) reproduction (b) respiration (c) adhesion  (d) digestion

**B.L.I.Sc**

1. The meaning of *sine qua non* is
   a) An Indispensable action   b) Calculations  c) Non –existent   d) Crime

2. What does idiom “ Come round” means:
   a) Suffer   b) Attack  (c) Agree, recover   d) Obstacle

3. Zoological name of Man is:
   a) Macaca mulatta  (b) Homo-sapiens  (c) Hemdatylus  (d) Naja-Naja

4. Karl Marx is the author of:
   a) Essays on Population  (b) Principles of Political Economy
c) General Theory of Employment, Interest, and Money  d) Das Kapital

5. Information is:
a) Raw data  b) Processed data  c) Unorganized data  d) None of these

**LLB (Professional) 3 Years**

1. The UNO was founded at:
   a) Paris  b) Moscow  c) London  d) San Fransisco

2. A contract which could be avoided by one of the parties in the contract at his option is:
   a) Void Agreement  b) Voidable Contract  c) Illegal Agreement  d) None of the above

3. International Court of Justice has its seat at:
   a) Geneva  b) Hague  c) New Yourk  d) London

4. A Supreme Court Judge retires at the age of:
   a) 58 years  b) 60 years  c) 62 years  d) 65 years

5. Write synonyms:
   Condone
   a) Pardon  b) Condole  c) Punish  d) Confer

**PGDBM**

1. The main point from the author’s view is that
   A. Man’s soul and spirit can not be destroyed by superpowers.
   B. Man’s destiny is not fully clear or visible.
   C. Man’s soul and spirit are immortal.
   D. Man’s safety is assured by the delicate balance of power in terms of nuclear weapons.
   E. Human society will survive despite the serious threat of total annihilation.

2. Put this medicine on your arm and rub it into your skin until it’s invisible. It will **inhibit** the infection’s attempt to spread. What does “inhibit” mean?
   a. live in a certain place  b. block or slow down
   c. itch or burn  d. help to do something important

3. If the concentration of petrol in the second tank is 75% and the cost price of kerosene is half that of petrol, then what is Govind Lal’s net profit percentage on selling the contents of the second tank given that he claims to sell the petrol at a profit of 25%?
   a: 42 6/7%  b: 66 2/3%  c: 83 1/3%  d: 100%  e: 20%

4. How much interest will Rs. 10,000 earn in 9 months at an annual rate of 6%?
   (a) 450  (b) 500  (c) 475  (d) 600

5. If JAPAN is coded KCSES, then the code for CASTLE will be ____.
   (a) DIYOBT  (b) DJKRDP  (c) DKMSGR  d) DCVXQK

**PG HUMAN RIGHTS & DUTIES EDUCATION:**

1. Many Countries have abolished _______ punishment for the crime of murder.
   a) Capital  b) Corporal  c) Mortal  d) Ultimate

2. A Supreme Court Judge retires at the age of:
   a) 58 years  b) 60 years  c) 62 years  d) 65 years

3. The UNO was founded at:
   a) Paris  b) Moscow  c) London  d) San Fransisco

4. International Court of Justice has its seat at:
   a) Geneva  b) Hague  c) New Yourk  d) London

5. The international Monetray fund came into existence with:
   a) Berlin Conference  b) London Conference  c) Bretton Woods Conference  d) Rome Conference
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commencement of Admission Process after the declaration of result of</td>
<td>2nd week of June, 2012</td>
</tr>
<tr>
<td>JUET</td>
<td></td>
</tr>
<tr>
<td>The University re-opens after the Summer Break</td>
<td>2nd of July, 2012</td>
</tr>
<tr>
<td>Commencement of Teaching of 3rd and 5th semester, as the case may be</td>
<td>2nd of July, 2012</td>
</tr>
<tr>
<td>Commencement of Teaching of 1st Semester</td>
<td>9th of July, 2012</td>
</tr>
<tr>
<td>Completion of Admission Process (including Transfer Cases)</td>
<td>27th of July, 2012</td>
</tr>
<tr>
<td>Assessment Test/Assignment (1st Internal)</td>
<td>17th of September, 2012</td>
</tr>
<tr>
<td>Assessment Test/Assignment (2nd Internal)</td>
<td>Latest by 15th of October, 2012</td>
</tr>
<tr>
<td>Diwali Break</td>
<td>12th of November, 2012 to 17th of November, 2012</td>
</tr>
<tr>
<td>Termination of Teaching of 1st, 3rd and 5th Semester Courses</td>
<td>26th of November, 2012</td>
</tr>
<tr>
<td>Submission of Internal Assessment Record of 1st, 3rd and 5th</td>
<td>26th of November, 2012</td>
</tr>
<tr>
<td>Semester as the case may be</td>
<td></td>
</tr>
<tr>
<td>Preparatory Holidays for Students</td>
<td>22nd of November, 2012 to 2nd of December</td>
</tr>
<tr>
<td>Termination of 1st, 3rd and 5th Semester Examinations</td>
<td>Latest by 21st of December, 2012</td>
</tr>
<tr>
<td>Winter Break</td>
<td>24th of December, 2012 to 4th of January 2013</td>
</tr>
<tr>
<td>Commencement of Teaching of 2nd, 4th and 6th Semester Courses</td>
<td>Immediately after the termination of 1st, 3rd, and 5th Semester Examinations &amp; after Winter Break on 1st of January, 2013</td>
</tr>
<tr>
<td>Assessment Test/Assignment (1st Internal)</td>
<td>Latest by 28th February, 2013</td>
</tr>
<tr>
<td>Holi Break</td>
<td>March, 2013 (5Days) starting two days before Holi.</td>
</tr>
<tr>
<td>Assessment Test/Assignment (2nd Internal)</td>
<td>Latest by 30th of March, 2013</td>
</tr>
<tr>
<td>Termination of Teaching of 2nd, 4th and 6th Semester Courses</td>
<td>Latest by 26th April, 2013</td>
</tr>
<tr>
<td>Preparatory Holidays for Students</td>
<td>29th of April, 2013 to 10th of May, 2013</td>
</tr>
<tr>
<td>Completion of Examinations of 2nd, 4th and 6th Semester as the case</td>
<td>Before May 31st, 2013</td>
</tr>
<tr>
<td>may be</td>
<td></td>
</tr>
<tr>
<td>Submission of Internal Assessment Record of 2nd, 4th and 6th</td>
<td>Latest by 10th of May, 2013</td>
</tr>
<tr>
<td>Semester as the case may be to the Controller of Examinations</td>
<td></td>
</tr>
<tr>
<td>Summer Vacations</td>
<td>13th of May, 2013 to 28th of June, 2013</td>
</tr>
</tbody>
</table>