

Geography
III Semester(B.A./B.SC)

Examination to be held in the years Dec. 2015, 2016 & 2017

Course No. GO-301(Theory)

Title: Physical Geography-II

Duration: 3 Hours

Max. Marks: 100

Theory Examination 80

Internal Assessment 20

Credits: 04

Syllabi for B.A./B.SC. Semester-III Theory Examination, 2015 onwards

The objectives of the course is to introduce the latest concepts in physical Geography, especially in Climatology and Oceanography to the students of Geography

Section- A (CLIMATOLOGY)

Unit-I

1. Weather and Climate, Composition and Structure of atmosphere (2)
2. Insolation and Global Heat Budget, Vertical, Horizontal (3)
distribution of temperature
3. Atmospheric Pressure:- Vertical and Horizontal distribution of pressure (5)
4. Winds – Causes and Types (Planetary, Periodic and Local Winds) (3)

Unit-II

1. Atmospheric Moisture – Types of Humidity and Type of Precipitation (5)
2. Atmospheric Disturbances – Air masses and Fronts, concepts and types (5)
3. Tropical and Temperate cyclones – causes and distribution (3)
4. Climatic Classification – Basis and Types of Koppen's Classification (3)

Section – B (OCEANOGRAPHY)

Unit-III

1. Configuration of Ocean Floor Continental shelf, Continental slope,(4)
Deep sea plain and Ocean deep
2. Temperature of oceans – Horizontal and Vertical distribution of (2)
temperature
3. Salinity – causes and distribution (2)
4. Ocean water circulation – causes and types of ocean currents: Indian ocean currents and Atlantic ocean currents. (4)

Unit-IV

1. Waves – definition, origin and types (2)
2. Tides – definition, origin and types (2)

3. Coral reefs – origin and types (3)
4. Ocean deposits – origin and types (3)

Note for Paper Setting:

The Question Paper shall comprise of two sections – A&B. Section A shall be compulsory and shall comprise of 8 short answer questions of 2 marks each. Answer should be limited to 20 words. Candidate shall be required to attempt all the 8 questions. Section-B shall comprise of 8 questions from 4 Units. Candidates shall be required to attempt one question from each unit and each question shall be of 16 marks. Answer should be limited to 450 words for each question.

Suggested Readings:

Climatology

1. Trewartha, G.T. “An introduction to Climate”. International Students Edition, MsGraw Hills, New York, 1980.
2. Barry R.G. & Chorley, R.J. “Atmosphere Weather and Climate” Rpi;;edge. 1998.
3. Critchfield H, General Climatology, Prentice Hall New York, 1975.
4. Mallher J.R. Climatology, MsGraw Hills, New York, 1974.
5. Patterson S-Introduction to Meterology, MsGraw Hill Book Co., London, 1969.

Oceanography

1. Grald S – General Oceanography – An introduction, John Willey and Sons, New York, 1980.
2. King L.C. Oceanography for Geographers, E.Arnold London, 1975.
3. Sharma R.C. & Vatal M, Oceanography for Geographers, Allahabad, 1970.
4. Shepard F.P. Submarine Geology, Harper & Sons, New York, 1948.
5. Thuman H.P. Introductory Oceanography, Charles Webber E Merril Publishing Co. 1984.

Distribution of Internal assessment of 20 marks as under:

- (i) Class Test = 10 Marks
- (ii) Two written assignments = 10 Marks (05 Marks each)

Geography
Practical III Semester (B.A. / B.SC)
Course No.GO-301 (Practical) Title- Cartography-III (Practical)

Examination to be held in the years Dec. 2015, 2016 & 2017

Duration: 3 Hours

Maximum Marks - 50
External Examination - 25
Internal Examination - 25

Unit-I Cartographic Symbols

- 1.1. Types of Cartographic Symbols: - Point, Line & Area Symbols and their application.
- 1.2. Cartographic Diagrams:-Pie-diagram, Proportional Circle, Concentric circle, Sphere and Pyramid.
- 1.3. Representation of Population and climatic data by Cartographic diagrams.

Unit-II Cartographic Methods and Statistical Data

- 1.1. Cartographic Methods: - Isopleth, Choropleth, Dot, Chorochromatic and Choroschematic. Definition and their application.
- 1.2. Distribution of Maps :- Methods and drawing of distribution maps, Representation of population (Distribution, Density, Growth, Sex-Ratio) and climate(Temperature and Rainfall) data by Choropleth and Isopleth methods.
- 1.3. Statistical Data: - Definition, Types of Data, Methods and Sources of Primary and Secondary data Collection. Tabulation of data. Sources of data, tabulation and analysis of data

Instructions for the paper setter:

The question paper will be set out of two units. In all 'Eight' questions will be set: Four questions from each unit. Students will be required to attempt four questions i.e. two questions from each unit. Each question carries 5 marks.

Marks Distribution

- i) First assessment on the basis of day to day performance in the laboratory/
field = 06 Marks
- ii) Second assessment on the basis of day to day performance in the
laboratory/field = 06 Marks
- iii) Class Test = 08 Marks
- iv) Regularity of Attendance = 05 Marks

Suggested Readings:

1. Mishra R.P. and Ramesh A., Fundamentals of Cartography, Mcmillan Co. New Delhi, 1986.
2. Pal, S.K., Statistics for Geoscientists – Techniques and Application. Concept Publishing, New Delhi, 1998.
3. Robinson, A.H. et.al: Elements of Cartography, John Wiley & Sons, U.A.A., 1995.
4. Sarkar A., Practical Geography: S Systematic Approach, Oriental Logman, Calcutta, 1997.
5. Singh R.L. and Dutt R.K., Elements of Practical Geography, Kalyani Publishers, New Delhi, 1979.

Geography
IV Semester(B.A./B.Sc)

Examination to be held in the years Dec. 2015, 2016 & 2017

Course No. GO-401(Theory)

Title:Geography of India

Duration: 3 Hours

Max. Marks: 100

Theory Examination 80

Internal Assessment 20

Credits: 04

Section-A

Unit-I

1. India In the context of Asia (1)
2. Physiographic divisions of India (2)
3. The mechanism of Indian monsoon: Jet streams, western disturbances(2)
4. India-Major river systems (2)

Unit-II

1. India : soils (types, characteristics and distribution) (1)
2. India: vegetation (types , characteristics and distribution) (1)
3. Mineral resources of India- iron ore, mica, manganese (2)
4. Power resources of India-coal, petroleum, water power (2)

Section-B

Unit-III

1. Indian agriculture; characteristics and problems (2)
2. Green revolution in India: feature and advantages (1)
3. Spatial distribution of population, density and growth (1)
4. Urbanization in India: Trends and disparities (1)

Unit-IV

1. Basis of regionalization – macro, meso regions of India (2)
2. Industrial regions of India and factors of localization of Iron and steel and cotton textile industries (2)
3. India: environmental problems and measures of conservation (2)
4. Major Tourist destination of Indian States-Himachal Pradesh, Rajasthan (2)

Note for paper setters:

The Question Paper shall comprise of two sections-A&B. Section A shall compulsory and shall comprise of 8 short questions of 2 marks each. Answer should be limited to 20 words. Candidate shall be required to attempt all the 8 questions. Section –B shall comprise of 8 questions from 4 Units. Candidates shall be required to attempt one question from each unit and each question shall be of 16 marks. Answer should be limited to 450 words for each question.

Suggested Readings:

1. Deshpande, C.D: India- A Regional Interpretation, Northern Book Centre, New Delhi, 1992.
2. Ginsburg N: The Pattern of Asia, Prentice Hall, Englewood cliffs.
3. Govt. of India: National Atlas of India, NATMO Publication, Calcutta.
4. Govt. of India: The Gazetteer of India, Vol. I &III Publication Division, New Delhi.
5. Negi, Balbir Singh: Geography of India, Kedarnath Ramnath, Meerut, Delhi, 1993.
6. Singh, Gopal: India (Latest Edition), Atma Ram & Sons, Delhi.
7. Singh, Jagdish: India: A Comprehensive Systematic Geography, Radha Publications, New Delhi, 2003.
8. Singh, R.L: A Regional Geography, National Geographical Society of India, Varanasi, 1995.
9. Spate, O.H.K. and Learmonth, A.T.A: India and Pakistan- Land, People and Economy, Methuen & Co., London, 1967.

Distribution of Internal assessment of 20 marks as under:

- (i) Class Test = 10 Marks
- (ii) Two written assignments = 10 Marks (05 Marks each)

Geography
Practical IV Semester (B.A. / B.SC)
Course No. GO-401 (Practical) Title- Cartography-IV
(Practical)

Examination to be held in the years Dec. 2015, 2016 & 2017

Duration: 3 Hours

Maximum Marks - 50

External Examination - 25

Internal Assessment - 25

Unit-I

Cartography and Statistical Methods (25)

- 1.1. Distribution of Maps (Part-II):- Representation of Agriculture and Transport (Flow diagrams) data.
- 1.2. Computer Cartography: - Introduction to Computer and its application in Cartography.
- 1.3. Measures of Central Tendency: - Mean, Median and Mode.
- 1.4. Measures of Dispersion: - Mean Deviation, Quartile Deviation and Standard Deviation.

Unit-II

- 2.1. Plane Table Survey:- Radial and Intersection methods.
- 2.2. Field Trip based on the study of an area of Industrial/Tourist destinations.(2

Instruction For Paper Setter

The practical examination will be conducted in one session of three hour duration. The question paper will be set out of Unit-I from which four questions will be set out. Students will be required to attempt two questions. Unit-II is compulsory.

Marks Distribution

- i) First assessment on the basis of day to day performance in the laboratory/
field = 06 Marks
- ii) Second assessment on the basis of day to day performance in the
laboratory/field = 06 Marks
- iii) Class Test = 08 Marks
- iv) Regularity of Attendance = 05 Marks

Suggested Readings:

1. Mishra R.P. and Ramesh A., Fundamentals of Cartography, Mcmillan Co. New Delhi, 1986.
2. Pal, S.k., Statistics for Geoscientists- Techniques and Application. Concept Publishing, New Delhi, 1998.
3. Robinson, A.H. et.al: Elements of Cartography, John Wiley & Sons, U.S.A., 1995.
4. Sarkar A., Practical Geography: Systematic Approach, Oriental Logman, Calcutta, 1997.
5. Singh R.L. and Dutt R.K., Elements of Practical Geography, Kalyani Publishers, New Del

- 4.3 Distribution, Production and Types of Coal, Iron-ore, Manganese (1)
- 4.4 World distribution of Iron and Steel, Cotton Textile (2)

Instructions for the Paper Setter:

The question paper shall comprise of two sections. Section-A & B. Section-A shall be compulsory covering all the units of the syllabus and shall consist of 8 questions. Each question carries 2 marks; each answer should be limited to 50 words only. Section-B shall comprise of 8 questions, spreading over 4 units of the syllabus having internal choice and the students shall have to attempt 4 questions in all. Each question shall be of 6 marks and answer should be limited to 300 words.

Suggested Readings:

1. Chandna, R.C., "Geography of Population", Kalyani Publishers, 2001, New Delhi.
2. Hussain, M., "Human Geography" Rawat Publications, 1999, New Delhi.
3. Leong, G.C. & Morgan, C.G., "Human and Economic Geography", Oxford Univesity Press, 2001.
4. Singh, L.R., "Fundamentals of Human Geography", Sharda Pustak Bhawan 2003, Allahabad.

Distribution of Internal assessment of 20 marks as under:

- (i) Class Test = 10 Marks
- (ii) Two written assignments = 10 Marks (05 Marks each)

Geography
Practical V Semester (B.A. / B.SC)
Course No.GO- 501 (Practical) Title – Cartography
(Projection) Examination to be held in the years Dec. 2015, 2016 & 2017

Duration: 3 Hours

Maximum Marks - 50

External Examination - 25

Internal Assessment - 25

Unit-I (Theoretical Concepts) (25)

1.1.Map Projections: General Principles and its significance

1.2.Classification of Map Projection

1.3.Choice of Map Projections

Unit-II

Construction, Properties, Merits and Demerits of the following
Map Projections:

1.1. Cylindrical Map Projections

a) Simple Cylindrical Map Projections

b) Cylindrical Equal Area Map Projection

c) Mercator's Map Projection

1.2. Conical Map Projections

a) Conical Map Projection with one Standard Parallel

b) Conical Map Projection with two Standard Parallel

c) Bonne's Map Projection

Instructions to the Paper Setter:

The Practical Examination will be conducted in one session of three hours duration. The question paper will be set out of two units. In all 'Eight' questions will be set. Four questions from each unit. Students will be required to attempt Four questions i.e. Two questions from each Unit. Each question carries 5 marks.

Marks Distribution

- i) First assessment on the basis of day to day performance in the laboratory/
field = 06 Marks

- ii) Second assessment on the basis of day to day performance in the laboratory/field = 06 Marks
- iii) Class Test = 08 Marks
- iv) Regularity of Attendance = 05 Marks

Suggested Readings:

1. Singh, R.L. and Dutt, P.K. Elements of Practical Geography, Kalyani Publishers, New Delhi.
2. Alvi Zamir: Statistical Geography Rawat Publications, Jaipur and New Delhi.
3. Alvi, Zamir, A Test Book of Surveying. Rawat Publications New Delhi.
4. Mahmood, Aslam (2002), Statistical Methods in Geographical Studies. Rajesh Publications New Delhi-110002.
5. Ishtiaque M., A Test Book of Practical Geography, Heritage Publishers, 4-C, Ansari Road, Daryaganj, New Delhi.

Geography
VI Semester(B.A./B.Sc)

Examination to be held in the years Dec. 2015, 2016 & 2017

Course No. GO-601(Theory)

Title: Geography of Asia

Duration: 3 Hours

Max. Marks: 100

Theory Examination 80

Internal Assessment 20

Credits: 04

Syllabi for B.A./B.Sc. Semester-VI Theory Examination, 2015 onwards

Section-A (Human Geography) No. of Lectures

Unit-I

- | | | |
|-----|---|-----|
| 1.1 | Asia in the context of World | (1) |
| 1.2 | Asia – Physiographic Divisions | (2) |
| 1.3 | Asia – Factors affecting Climate, Temperature, Pressure and Rainfall conditions | (2) |
| 1.4 | Asia – Major River Systems | (1) |

Unit-II

- | | | |
|-----|---|-----|
| 2.1 | Asia – Types, Characteristics and Distribution of Forests | (1) |
| 2.2 | Asia – Major Soil Types | (1) |
| 2.3 | Asia – Agriculture (Conditions of Growth, Production and Distribution of Rice, Wheat, Jute and Tea) | (2) |
| 2.4 | Asia – Distribution and Density of Population and Urbanization | (2) |

Unit-III

- | | | |
|-----|--|-----|
| 3.1 | Japan – Physiography, Climate, Distribution and Density of Population. | (2) |
| 3.2 | Japan – Main Features of Agriculture, Localization of Industries and Industrial Regions | (2) |
| 3.3 | Pakistan – Physiography, Climate, Distribution and Density of Population | (2) |
| 3.4 | Pakistan – Main Features of Agriculture, Localization of Industries and Industrial Regions | (2) |

Unit-IV

- 4.1 China – Physiography, Climate, Distribution and Density of Population (1)
- 4.2 Contemporary Issues and Geospatial Technology in Geography (2)
- 4.3 World Summits on Environment (1)
- 4.4 Global Warming – Causes and Consequences (1)

Instructions for the Paper Setter:

The question paper shall comprise of two sections. Section-A & B. Section-A shall be compulsory covering all the units of the syllabus and shall consists of 8 questions. Each question carries 2 marks, each answer should be limited to 50 words only. Section-B shall comprise of 8 questions, spreading over 4 units of the syllabus having internal choice and the students shall have to attempt 4 questions in all. Each question shall be of 6 marks and answer should be limited to 300 words.

Suggested Readings:

1. Cole, J: A Geography of the World's Major Regions, Routledge, London, 1996.
2. Dickenson, J.P: The Geography of the Third World, Routledge, London, 1996.
3. Stamp, L. Dudley: Asia: A Regional and Economic Geography, Methuen & Co., London, 1959.
4. Tirtha, Ranjit: Geography of Asia, Rawat Publications Jaipur & New Delhi, 2001.
5. Tikka, R.N: Geography of Asia, New Academic Publishing Co. Educational Publishers, Mai Hiran Gate, Jalandhar, Latest Edition.

Distribution of Internal assessment of 20 marks as under:

- (i) Class Test = 10 Marks
- (ii) Two written assignments = 10 Marks (05 Marks each)

Geography
Practical VI Semester (B.A./ B.SC)
Course No.GO- 601 (Practical) Title - Projection and Advance Techniques
Examination to be held in the years Dec. 2015, 2016 & 2017

Duration: 3 Hours

Maximum Marks - 50
External Examination - 25
Internal Assessment - 25

Unit-I

Construction, Properties, Merits and Demerits of the following Map Projection
(25)

- 1.1. Zenithal Map Projections(Polar Cases)
 - a).Zenithal Equal Area
 - b).Zenithal Equidistant
- 1.2. Conventional Map Projection
 - a). Sinusoidal Map
 - b). Mollweide Map Projection
- 1.3. Correlation Analysis
 - a). Karl Pearson's Product Moment Method
 - b). Spearman's Rank Correlation
- 1.4. Advance Techniques:-
 - a). Remote Sensing :- Principles , Types of Remote Sensing and its application
 - b). GIS;- Introduction to GIS , application of GIS techniques for various Geographic studies

Unit-II

- 1.3. Prismatic Compass Survey
 - a). Open Traverse
 - b). Close Traverse
- 2.2. Socio- Economic Survey based upon primary data and writing of reports.

Instructions to the Paper Setters:

The practical examination will be conducted in one session of three hours duration. The question paper will be set out of unit – I from which four questions will be set out. Students will be required to attempt two questions. Unit –II is compulsory.

Marks Distribution

- i) First assessment on the basis of day to day performance in the laboratory/
field = 06 Marks
- ii) Second assessment on the basis of day to day performance in the
laboratory/field = 06 Marks
- iii) Class Test = 08 Marks
- iv) Regularity of Attendance = 05 Marks

Suggested Readings:

1. Singh, R.L. and Dutt, P.K.Elements of Practical Geography, Kalyani Publishers, New Delhi.
2. Alvi Zamir: Statistical Geography Rawat Publications, Jaipur and New Delhi.
3. Alvi, Zamir, A Test Book of Surveying. Raluat Publications New Delhi.
4. Mahmood, Aslam (2002), Statistical Methods in Geographical Studies. Rajesh Publications New Delhi-110002.
5. Ishtiaque M., A Test Book of Practical Geography, Heritage Publishers, 4-C, Ansari Road, Daryagang, New Delhi.