### B.A. Geography (Pass Course) Outline and Scheme w.e.f. 2011-12

<table>
<thead>
<tr>
<th>Paper No.</th>
<th>Title</th>
<th>Internal Assessment</th>
<th>External Assessment</th>
<th>Maximum Marks</th>
<th>Total Marks</th>
<th>Time</th>
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<td><strong>Semester-I</strong></td>
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<tr>
<td>101</td>
<td>Geography of India</td>
<td>20</td>
<td>50</td>
<td>70</td>
<td>100</td>
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<tr>
<td>102</td>
<td>Maps and scales (Practical)</td>
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<td><strong>Semester-II</strong></td>
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<tr>
<td>103</td>
<td>Physical Geography I</td>
<td>20</td>
<td>50</td>
<td>70</td>
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<td>104</td>
<td>Representation of Physical Features (Practical)</td>
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<td>201</td>
<td>Physical Geography II</td>
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<td>202</td>
<td>Representation of Climate Data (Practical)</td>
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<tr>
<td>203</td>
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<td>50</td>
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<td>Maps projections (Practical)</td>
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<td><strong>Semester – V</strong></td>
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<td>301</td>
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<td>50</td>
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<td>302</td>
<td>Distribution Maps and Diagrams (Practical)</td>
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<td><strong>Semester- VI</strong></td>
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<td>303</td>
<td>Introduction to Remote Sensing, Hours GIS and Quantitative Methods</td>
<td>20</td>
<td>50</td>
<td>70</td>
<td>100</td>
<td>3</td>
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<td>304</td>
<td>Introduction to Remote Sensing and Field Survey Report (Practical)</td>
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Paper 101 Geography of India

Maximum Marks : 50
Time : 3 Hours

Note: Question 1 is compulsory and comprises of ten short questions to be answered in 15-20 words. There will be eight long questions, two from each section. The candidate has to answer one question from each section. All five questions carry equal marks.

SECTION- A
1. India: Location, relief structure and drainage systems.
2. Climate, soils, natural vegetation, and natural disasters in India.

SECTION – B
4. Migration, human settlement types and levels of urbanization.

SECTION-C
5. Land resources, irrigation, regional variations in cropping pattern, Green revolution and problems of Indian agriculture.
6. Energy and mineral resources: coal, petroleum, hydroelectricity and nuclear energy, iron ore, manganese and mica.

SECTION-D
7. Industries- iron and steel, cotton textile, sugar and petrochemical industries; and industrial regions of India.
8. Modes of transport and communication, international trade changing pattern of export and import.

Suggested Readings
1. Deshpande, C D: India – A Regional Interpretation, Northern Book Depot, New Delhi, 1992.
Paper 102 Maps and Scales (Practical)

Distribution of Marks

Exercises = 18
Record File = 6
Viva-voce = 6

Note: There will be four questions in all and candidate has to attempt three exercises.

1. Introduction to Cartography.
2. Maps and their types.
3. Map Scales. Exercises
   (i) Methods of Expressing a scale 2
   (ii) Conversion of Statement of Scale into R.F. and vice-versa.
   (iii) Plain Scale (Km and mile)
   (iv) Comparative Scale 1
   (v) Diagonal Scale 1
4 Measurement of Distances and Areas on Maps
5 Enlargement and Reduction of Maps

Suggested Readings:

Note: Question 1 is compulsory and comprises of ten short questions to be answered in 15-20 words. There will be eight long questions, two from each section. The candidate has to answer one question from each section. All five questions carry equal marks.

SECTION- A

2. Interior of the earth, Geological time scale and rocks.

SECTION- B

3. Earth movements; organic, eperogenic, earth quakes and volcanoes.
4. Theory of Isostasy ; Wegner’s theory of continental drift and Plate tectonic theory.

SECTION- C

5. Weathering; causes and its types.
6. Mass-movements; causes, its types and impacts.

SECTION- D

7. Concept of cycle of erosion; cycle of erosion by W.M.Davis, Penck and King

References

Paper 104 Representation of Physical Features (Practical)

Maximum Marks: 30
Time : 3 Hours

Distribution of Marks
Exercises = 18
Record File = 6
Viva-voce = 6

Note: There will be four questions in all and candidate has to attempt three exercises.

Exercises

1. Introduction to Topographical Sheets 3
   India and adjacent countries
   . Degree Sheet
   . Half Degree Sheet
   . Quarter Degree Sheet
   . Conventional Signs
2. Methods of representing relief 1
3. Representation of Topographical features by contours. 4
   Slopes (Concave, convex, undulating and terraced)
   Valleys (V shaped, U shaped, Gorge, Re-entrant)
   Ridges (Conical hill, Volcanic hill, Plateau, Escarpment)
   Complex features (waterfall, sea cliff, overhanging cliff, Fiord coast)
4. Drawing of Profiles 5
   (a) Cross Profiles: Serial, superimposed, projected and composite profiles.
   (b) Longitudinal profiles

Suggested Readings:

Paper 201 Physical Geography-II

Maximum Marks: 50
Time: 3 Hours

Note: Question 1 is compulsory and comprises of ten short answer type questions to be answered in 15-20 words. There will be eight long questions, two from each section. The candidate has to answer one question from each section. All five questions carry equal marks.

SECTION-A

1. Weather and Climate; Origin, composition and structure of atmosphere.
2. Insolation, Global heat budget, Horizontal and vertical distribution of temperature, inversion of temperature.

SECTION-B

3. Atmospheric pressure- measurement and distribution, pressure belts, planetary winds, Monsoon, Jet Streams EL NINO- La Nina Phenomenon and Local winds.
4. Humidity- measurement and variables, evaporation, condensation, precipitation forms and types and distribution, hydrological cycle.

SECTION-C

5. Air masses- concept and classification; Fronts- type and characteristics, Weather disturbances- tropical and extra-tropical cyclones.
6. Climate classification by Koppen; climatic change and global warming.

SECTION-D

7. Configuration of oceanic floors and surface relief of Pacific, Atlantic and Indian Oceans; temperature and salinity of oceans.
8. Tides, waves and oceanic currents; circulation in Pacific, Atlantic and Indian Oceans; Oceanic resources.

Suggested Readings:

5. Trewartha, G.T., The Earth’s Problems Climates, University of Wisconsin Press, USA.
1. Measurement of temperature, rainfall, pressure and humidity.
2. Representation of temperature and rainfall.
   (i) Line and Bar Graph – 1 Exercise.
   (ii) Distribution of temperature (180 therms) – 1 Exercise.
   (iii) Distribution of rainfall (180 hytes) – 1 Exercise.
   (iv) Hythergraph - 1 Exercise.
   (v) Rainfall deviation diagram - 1 Exercise.
3. Climograph (wet and dry places) - 2 Exercise.
4. Distribution of pressure (180 bars) - 2 Exercise.
5. Weather map Interpretation (January & July) - 2 Exercise.
6. Change and tape survey – 2 Exercise.

Suggested Readings:
Note: Question 1 is compulsory and comprises of ten short answer type questions to be answered in 15-20 words. There will be eight long questions, two from each section. The candidate has to answer one question from each section. All five questions carry equal marks.

Section - I

2. Division of Mankind: Spatial distribution of race and tribes of India; concept of men-environment relation: A historical approach.

Section - II

3. Human adaptation to the environment (i) Cold region – Eskimo (ii) Hot region- Bushman (iii) Plateau – Gonds (iv) Mountains – Gujjars
4. Meaning, nature and components of resources; Classification of resources – renewal and non-renewable ; biotic and abiotic, recyclable and non recyclable. Distribution, utilization and conservation of biotic (flora and fauna) and abiotic (water, minerals and energy) resources.

Section - III

5. Distribution and density of world population, population growth, fertility and mortality patterns.
6. Concept of over, under and optimum population; Population theories: Malthus, Ricardo and Marx.

Section - IV

8. Population pressure, resource use and environment degradation; sustainable development, concept of deforestation, soil erosion, air and water pollution.

Suggested Readings:-
1. Introduction to Map Projection: Meaning, Classification and importance; Characteristics of latitudes and longitudes lines.
2. Cylindrical projections: Characteristics, applications and drawing; (3)
   (i) Simple cylindrical projection
   (ii) Cylindrical equal area projection.
   (iii) True shape or orthomorphic or Mercator’s Projection.
3. Conical Projections: Characteristics, applications and drawing.
   (i) Simple conical projections with one standard parallel
   (ii) Simple conical projection with two standard parallel
   (iii) Bonne’s Projection
   (iv) Polyconic projection.
   (v) International Map Projection.
4. Zenithal Projections: Characteristics, applications and drawing. (5)
   (i) Polar Zenithal Equidistant Projection.
   (ii) Polar Zenithal Equal Area Projection
   (iii) Polar Zenithal Gnomonic Projection
   (iv) Polar Zenithal Stereographic Projection.
   (v) Polar Zenithal Orthographic Projection
5. Characteristics, applications and drawings of (i) Sinosoidal and (ii) Mollweide Projections.
6. Plane Table Survey.

Suggested Readings:-
Note: *Question 1 is compulsory and comprises of ten short answer type questions to be answered in 15-20 words. There will be eight long questions, two from each section. The candidate has to answer one question from each section. All five questions carry equal marks.*

**Section A**

2. Classification of economic activities and their impact on environment.

**Section B**

3. World natural resources: Types, bases and classification.

**Section C**

5. Spatial distribution of food (rice and wheat), commercial (cotton and sugarcane) and plantation crops (tea, rubber and coffee).
6. Classification of mineral resources (ferrous and non-ferrous), distribution and production of coal, iron ore, petroleum and natural gas.

**Section D**

7. Classification of industries, world distribution and production of iron and steel and textile industry, major industrial complexes of the world.
8. Transport, communication and trade: geographical factors in their development, major modes of water, land and air transport, recent trends in international trade

**Suggested Readings:**

Paper 302  Distribution Maps and Diagrams (Practical)

Maximum Marks: 30
Time : 3 Hours

Distribution of Marks
Exercises  = 18
Record File  = 6
Viva-voce  = 6

Note: There will be four questions in all and candidate has to attempt three exercises.

1. Principal of map design and layout
2. Symbolization: point, line and area symbol
3. Lettering and toponomy
4. Mechanics of map construction
5. Distribution maps
   (i) Qualitative distribution maps
      • Choroschematic maps- 1 Exercise
      • Chorochromatic maps- 2 Exercise
   (ii) Quantitative distribution Maps
      • Isopleth maps-3 Exercises
      • Choropleth maps-3 Exercises
      • Dot maps-3 Exercises
      • Diagrammatic maps- 3 Exercises.

Suggested readings:

Note: Question 1 is compulsory and comprises of ten short answer type questions to be answered in 15-20 words. There will be eight long questions, two from each section. The candidate has to answer one question from each section. All five questions carry equal marks.

**Section-A**
1. Introduction to Aerial Photographs: their advantages and types.
2. Elements of aerial Photo interpretation.

**Section-B**
3. Introduction to Remote Sensing; Electromagnetic spectrum, stages in remote sensing, type of satellites.
4. Types of Imageries and their application in various fields such as agriculture, environment and resource mapping.

**Section-C**
5. Introduction to Geographical Information System: Definition, purpose, advantages and software and hardware requirements.
6. Application of GIS in various fields of geography.

**Section-D**
7. Measure of Central Tendency: Mean, Median and Mode.
8. Measure of Dispersion: Range, Quartile deviation and Mean deviation, Standard deviation, Coefficient of variation.

**Suggested Readings:**
I - Remote Sensing Practical -15 Marks

Marks Breakup
Exercise = 9
Record book = 3
Viva-voce = 3

Note: There will be four questions in all and candidate has to attempt three exercises.

1. Demarcation of Principal Point, Conjugate Principal point and Flight line on Aerial Photographs – 1 Exercise
2. Determination of Scale of Aerial Photographs – 1 Exercise.
3. Interpretation of Single Vertical Photographs – 1 Exercise.
4. Use of Stereoscope and Identification of Features – 1 Exercise.
5. Identification of Features on IRSID, LISS III imagery (Mark copy of FCC) -1 Exercise.

II Socio-economic Survey and Report Writing -15 marks.

Marks Breakup
Field Survey Report = 10 marks
Viva-voce = 5 marks

Suggested Readings:-