

# **GEOGRAPHY**

## **B.A, Honours, Part- I**

### **PAPER – 1 (A)- (Full Marks- 75)**

#### **PHYSICAL GEOGRAPHY**

Ten questions will be set in all selecting two questions from each Unit Examinees will required to answer five questions selecting one from each unit.

- Unit- 1            Origin and solar system (Theories of Kant, Laplace, Jeans and Jeffrey's and Big Bang Theory)  
                      Internal Structure of the Earth  
                      Isostasy: Pratt's and Airy's views  
                      Earthquake and Volcanism
- Unit-2            Kober's and Holmes views on mountain Building  
                      Wegener's theory of Continental Drift  
                      Plate Tectonics  
                      Folded Topography  
                      Faulted Topography
- Unit-3            Normal Cycle of Erosion  
                      Arid Topography  
                      Glacial Topography  
                      Karst Topography
- Unit-4            Composition and structure of Atmosphere  
                      Classification of Air masses  
                      Fronts  
                      Cyclones  
                      Koppen's and Thornthwaite Scheme of Classification of Climate  
                      Climate Changes- Causes and Evidences
- Unit-5            Salinity of Ocean water  
                      Relief of Ocean Floor: Continental Shelf, Slope and Deep Sea Plain  
                      Relief of the Indian and Atlantic Ocean  
                      Ocean Currents  
                      Tides

**Paper- II (A)**

**ASIA: REGIONAL GEOGRAPHY**

**Full Marks- 75**

Ten questions will be set in all selecting two questions from each Unit Examinees will required to answer five questions selecting one from each unit.

Unit- 1      **Asia: Physical aspect**

Structure  
Physiography  
Drainage  
Climate  
Natural Vegetation

Unit- 2      **Asia: Economic and Human Resources**

Characteristics of Agriculture  
Mineral Resources- Iron ore, Manganese, Tin and Bauxite  
Power Resources- Coal, Petroleum, and Hydral Power  
Population and its Problems

**SECTION B**

Unit-3      **China**

Physiography  
Climate and Agriculture regions  
Industrial Development  
Industries- Iron and Steel, Cotton Textile  
Population

Unit-4      **Japan**

Physiography  
Fisheries  
Industries- Iron and Steel and Automobile  
Industrial Regions  
Population

Unit-5      Neighboring Countries

A balanced Geographical account of Bangladesh, Nepal, Pakistan, Sri Lanka and Bhutan.

**PAPER- I (B) & II (B)**  
**PRACTICAL – 50 MARKS**

Unit- 1:	Scale: Simple, Comparative and Diagonal Enlargement and Reduction of maps	15 Marks
Unit- 2:	Interpretation of Topographic Maps Cartograms: Bar Diagram- Simple and Compound, Pie Diagram	10 Marks
Unit- 3:	Map Projection Cylindrical Equi-distant Cylindrical Equal area Zenithal Equal Area Simple Conical with One Standard Parallel Conical with Two Standard Parallel	15 Marks
Unit- 4:	Record of Practical Work and Viva- Voce	10 Marks

**GEOGRAPHY**  
**B.A. Honours Part- II**  
**PAPER- III (A)- (Full Marks- 75)**  
**GEOGRAPHY OF INDIA**

Ten questions will be set in all selecting two questions from each Unit Examinees will required to answer five questions selecting one from each unit.

**Unit- 1      Physical Aspects**

Structure  
Physiography  
Drainage system- Himalayan and Peninsular  
Origin and Characteristics of Indian Monsoon  
Natural Vegetation

**Unit-2      Agriculture**

Soil- types, erosion and conservation  
Characteristics of Agriculture  
Major Crops- Rice, Wheat, Sugarcane and Coffee  
Importance and means of irrigation

**Unit-3      Minerals and Industries**

Mineral Resources- Iron ore, Manganese, Mica  
Power Resources- Coal, Petroleum and Hydel Power  
Selected Industries- Iron and steel, Cotton textile and Sugar

**Unit- 4      Population**

Growth and Distribution  
Population Problems and Policies  
Types and Patterns of rural settlements  
Rural- Urban Migration

**Unit- 5      Geography of Bihar**

Structure and Physiography  
Agriculture Crops: Rice, Wheat, Maize, Pulses  
Agricultural Regions  
River Valley Projects: Gandak, Kosi, Son  
Flood and Drought Problems  
Population

**GEOGRAPHY**  
**B.A. Honours, Part- II**  
**PAPER- IV (A) – (Full Marks- 75)**  
**ECONOMIC AND RESOURCE GEOGRAPHY**

Ten questions will be set in all selecting two questions from each Unit Examinees will required to answer five questions selecting one from each unit.

**SECTION- A**  
**ECONOMIC GEOGRAPHY**

- Unit- 1**      **Agriculture**  
Subsistence Farming  
Commercial Farming  
Plantation Agriculture  
Dairy Farming  
Mediterranean Agriculture
- Unit- 2**      **Industries**  
Industrial Location Theory of Weber  
Agriculture Location Theory of Von Thunen  
Iron and Steel Industry  
Cotton Textile Industries  
Sugar Industry
- Unit-3**      **Transport and Trade**  
International trade with reference to WTO  
Globalization and its impact on economy  
Trade routes- Suez and Panama canals

**SECTION- B**  
**RESOURCE GEOGRAPHY**

- Unit- 4**      **Concept of Resources**  
Meaning, Concept and Classification of resources  
Soil, water and forest resources- their distribution, utilization and conservation  
Fisheries of the World
- Unit-5**      **Mineral and Resources**  
Distribution and Production of the following resources  
Coal in USA and China  
Petroleum in the Middle East  
Iron ore in Russia and Australia  
Manganese in Russia and USA

**PAPER- III (B) & IV (B)**

<b>Unit- 1</b>	<b>Cartograms</b> Proportionate Circles Climograph Hythergraph Isopleth and Choropleth Age and Sex Pyramid	<b>15 Marks</b>
<b>Unit- 2</b>	<b>Projections</b> Bonne's Projection Polyconic, Sinusoidal and Mercator's Projection Polar cases of Gnomonic ,Stereographic & Orthographic Projection	<b>15 Marks</b>
<b>Unit- 3</b>	<b>Simple Statistical Techniques</b> Mean Median Mode Quartile and Standard Deviation	<b>10 Marks</b>
<b>Unit- 4</b>	<b>Record of Practical Work and Viva- voce</b>	<b>10 Marks</b>

**GEOGRAPHY**  
**B.A. HONOURS Part- III**  
**PAPER- V (Full Marks- 100)**

Ten questions will be set in all selecting two questions from each Unit Examinees will required to answer five questions selecting one from each unit.

**SECTION- A**  
**GEOGRAPICAL THOUGHT**

- Unit-1**      Meaning and Definition of Geography  
Its relationship with other sciences  
Contribution of Ancient Geographers Eratosthenes, Ptolemy  
Contribution made by Humbolt, Ritter, Ratzel, Vidal de la Blache and Mackinder in the field of Geography
- Unit- 2**      Dualism in Geography :Determinism vs Possibilism & Noe-determinism,Physical Vs Human Geography,Systematic vs Regional Geography  
Quantitative Revolution in Geography  
Humanistic Geography,Gender Geography

**SECTION- B**  
**HUMAN GEOGRAPHY**

- Unit- 3**      Meaning, Definition and Scope of Human Geography  
Evolution of Man  
Cultural realms of the world  
Human activities in Mountain environment, Monsoon lands, Equatorial regions  
Temperate Grasslands
- Unit-4**      Growth and distribution of population  
Theories of Demographic Transition, Optimum population  
Distribution, habitat and economy, mode of life and socio- cultural organization of the following tribes- Eskimo, Bushman, Santhal, Oraon
- Unit- 5**      Urbanization and related problems  
Growth Pole Theory  
Christaller's Central Place Theory  
Migration- Internal and International



**Part- VII (Full Marks- 100)**

**OPTIONAL PAPERS**

**Students are required to opt any one group out of Groups A, B, C and D.**

**GROUP-A**

**POPULATION GEOGRAPHY**

Ten questions will be set in all selecting two questions from each Unit Examinees will be required to answer five questions selecting one question from each unit.

- Unit- 1**      Meaning and Scope of Population Geography  
Science of Demography  
Recent trend of Population growth with special reference to developed and developing countries.  
Methods of population projections
- Unit-2**      Fertility measures and determinants  
Mortality measures and determinants  
Internal and International Migration  
Malthusian Theory of Population
- Unit-3**      Growth Pattern of World Population  
Distribution of World Population  
Problems Caused by Differential Population Pressure  
Population Policies of Russia and China
- Unit-4**      Population Composition in India  
Occupation Structure  
Literacy  
Age and Sex  
Major Religions  
Languages
- Unit-5**      Growth of Population in India  
Distribution and Density  
Urbanization in India  
Problems of Urbanization  
Population Policy in India

**Part- VII (Full Marks- 100)**  
**OPTIONAL PAPER**  
**GROUP- B**  
**GEOLOGY OF INDIA**

Ten questions will be set in all selecting two questions from each Unit Examinees will required to answer five questions selecting one from each unit.

- Unit 1** Nature and Scope of Geology  
Standard Stratigraphical Scale  
Indian Stratigraphical Scale  
Principles of co-relation of standard and Indian Stratigraphical scale
- Unit 2** Classification, mode of occurrence and distribution of Iron ore, Copper, Mica, Manganese, Coal, Petroleum and Atomic Minerals
- Unit 3** Petrological characteristics, Classification, distribution and economic Importance of Dharwar, Vindhyan, Gondwana and Tertiary Systems
- Unit 4** Origin, mode of occurrence and distribution of Igneous, Sedimentary and Metamorphic rocks  
Metamorphism
- Unit 5** Geological Evolution of  
Himalayas  
Chotanagpur plateau  
Rajmahal highlands  
Deccan Trap  
Aravalli

**Part- VII (Full Marks- 100)**  
**OPTIONAL PAPER**  
**GROUP- C**  
**CARTOGRAPHIC MAP MAPPING**

Ten questions will be set in all selecting two questions from each Unit Examinees will required to answer five questions selecting one from each unit.

- Unit-1            Definition and explanation of astronomical terms
- Unit-2            Determination of latitude with the help of meridian altitude of star  
Longitude and solar time  
Sidereal time
- Unit-3            Definition and classification of map projections  
Mathematical construction, Properties and uses of the following map projection  
(but not co-ordinates)  
Zenithal and equal area and Gnomonic (Polar case)  
Conical- Simple conical projection with one standard parallel and Bonne's  
projection  
Constant of Cone  
Cylindrical- Equal area, Mercator's Projection
- Unit- 4            Acquaintance with Theodolite  
Principal of Sextant  
Shape and Size of the earth  
Scale and their types  
Scale of spheres and circles  
Vernier Scale
- Unit- 5            Modern techniques of map making  
Survey of India maps  
Format and Symbol's of Map  
Acquaintance with photogrammetry  
Types and Interpretation of aerial photographs

**Part- VII (Full Marks- 100)**  
**OPTIONAL PAPER**  
**GROUP- D**  
**URBAN GEOGRAPHY AND PLANNING**

Ten questions will be set in all selecting two questions from each Unit Examinees will required to answer five questions selecting one from each unit.

- Unit- 1            Concept and scope of Urban Geography  
                         Origin and evolution of town  
                         Site and Situation  
                         Location and Classification of towns  
                         Functional classification of towns
- Unit-2            Urban Population growth in India  
                         Morphological Characteristics of Indian Towns  
                         Urban growth concept- Theories of Burgess, Hoyt, Harris and Ulman
- Unit-3            Urban Land Use  
                         Urban Functions  
                         Urban Morphology  
                         Urban Land use planning
- Unit-4            Town country relationship  
                         City region and Umland concept  
                         Rural- Urban Fringe  
                         Metropolitan region  
                         Conurbation
- Unit-5            Urban and Regional Survey  
                         Metropolitan planning and regional planning  
                         Towns and cities as central places  
                         Master Plan of Patna  
                         Concept of Smart City

**PAPER VIII**  
**Practical (Full Marks- 100)**  
**SECTION- A ( 50 Marks)**

Unit-1	<b>Surveying</b> Plane Table Survey Resection with Plane Table Open and Closed Travers with Prismatic Compass Leveling	<b>15 Marks</b>
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Unit-2	Geological Section and Interpretation of Geological Maps	<b>15 Marks</b>
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Unit-3	Identification of Rocks and Minerals Record of Practical work and viva- voce	<b>10 Marks</b> <b>10 Marks</b>
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**SECTION-B (50 Marks)** **30 Marks**

Unit-4	Project Report: A short analysis with map based on field survey and collection of data on any topic approved by Head of the Department	
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Unit-5	Tour Report A geographical account written by the students after visiting any of the following regions with appropriate maps, diagrams and data (to approved by the H.O.D)- a maximum of 15 days	<b>20 Marks</b>
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- a. Deccan region
- b. Delta region
- c. Chotanagpur plateau
- d. Central India
- e. North and Eastern Himalayas
- f. Rajgir

OR any other region



**B.A- II GEOGRAPHY (SUBSIDIARY)**  
**PAPER- II (A) (Full Marks- 75)**

**GEOGRAPHY OF INDIA**

Ten questions will be set in all selecting two questions from each Unit Examinees will required to answer five questions selecting one from each unit.

- Unit- 1        Physiography, Drainage, Climate, Soil, Natural Vegetation
- Unit- 2        Crops- Rice, Wheat, Tea  
                  Industries- Iron and Steel, Cotton textile, Sugar
- Unit-3        Mineral and Power Resources- Coal Petroleum, Iron ore  
                  Manganese and Mica- Production and Distribution
- Unit-4        Population- Growth, Distribution & Problems  
                  Types of rural settlement, Trends of Urban Growth
- Unit- 5        Bihar- Physiography, Climate, Agriculture, Population, Floods and Droughts

**PAPER- II (B) Subsidiary**  
**PRACTICAL**

**Full Marks- 25**

Unit-1

- a. Simple Statistical Methods- Mean, Median and Mode, Standard Deviation    **10 Marks**
- b. Map projection: Zenithal equi- distant, Simple Conical with one standard parallel and Cylindrical equal area

Unit-2 Record of Practical Work and Viva Voce

**5 Marks**