

GEOGRAPHY

Revised Syllabus

2015

**B.A. Honours
and
Subsidiary**

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GEOGRAPHY

B.A. Honours, Part – I

PAPER - I (A) – (Full Marks – 75)

PHYSICAL 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 :
- Origin of solar system (Theories of Kant and Laplace, Jeans & Jeffrey's & Big Bang Theory).
 - Internal structure of the earth
 - Isostasy : Pratt's and Airy's views
 - Earthquake and Vulcanism
- Unit – 2 :
- Kober's and Holme's 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's Scheme of classification of Climate
 - Climatic 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

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Books Recommended:

1. William, D. Thornbury - Principles of Geomorphology
2. Savindra Singh - Geomorphology
3. Enayat Ahmed - Geomorphology
4. P. Dayal- Geomorphology
5. Wooldrige and Morgan - An Outline of Geomorphology
6. R. N. Tikka - Physical Geography
7. D. S. Lal - Physical Geography, Climatology and Oceanography
8. पी० दयाल - भूआकृति विज्ञान
9. सविन्द्र सिंह- भूआकृति विज्ञान
10. डी० एस० लाल - जलवायु विज्ञान
11. अलका गौतम - जलवायु एवं समुद्र विज्ञान
12. Sharma & Vatal - Oceanography for Geographers

PAPER - II (A)

ASIA : REGIONAL STUDY

Full Marks – 75

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.

SECTION – A

Unit – 1 : Asia : Physical aspects

- Structure
- Physiography
- Drainage
- Climate
- Natural Vegetation

Unit – 2 : Asia : Economy and Human Resources

- Characteristics of Agriculture
- Mineral resources – Iron ore, Manganese, Tin and Bauxite
- Power resources – Coal, Petroleum and Hydel Power
- Population and its Problems

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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 be required to answer five questions selecting one question from each Unit

Unit - 1 : Physical Aspects

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

Unit - 2 : Agriculture

- Soil - types, erosion & conservation
- Characteristics of Agriculture
- Major Crops - Rice, wheat, sugarcane, cotton
- 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
- Agricultural Crops: Rice, Wheat, Maize, Pulses
- Agricultural regions
- River Valley Projects: Gandak, Kosi, Son
- Flood and Drought Problems
- Population

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Books Recommended:

1. Spate and Learmonth – India and Pakistan
2. Wadia – Geology of India
3. Singh, R.L. – India: A Regional Geography
4. Gopal Singh – Geography in India
5. Sharma and Coutinho – Economic and Commercial Geography of India
6. Mamoria – Bharat Ka Bhugol (Hindi)
7. Khullar-India: A Comprehensive Geography
8. R. C. Tiwari – Geography of India
9. M. Atullah & Ad. Muslimuddin – Bihar Ka Adhunik Bhugol (Hindi)
10. Barhu Pandit & A. K. Gupta – Bihar Ka Bhaugolik Adhyaan (Hindi)
11. Ahmad, E. – Bihar: A Physical and Economic Geography
12. Singh and Kumar – A Monograph of Bihar
13. Dr. L. N. Ram edited – A Systematic Geography of Bihar
14. V. N. P. Sinha & L. K. P. Singh – Jharkhand – Land and People

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 be required to answer five questions selecting one question from each Unit

SECTION – A

ECONOMIC GEOGRAPHY

Unit – 1 : Agriculture

- Subsistence farming
- Commercial grain Farming
- Plantation agriculture
- Dairy Farming
- Mediterranean Agriculture

Unit – 2 : Industries

- Industrial Location Theory of Weber
- Agricultural Location Theory of Von Thunen
- Iron and Steel industry
- Cotton Textile industry
- Sugar Industry

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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 Power Resources

Distribution and Production of the following resources:

- Coal in USA and China,
- Petroleum in Middle East
- Iron ore in Russia and Australia
- Manganese in Russia and USA

Books Recommended:

1. Jones and Darkenwald – Economic Geography
2. Zimmerman – World resources and industries
3. Alexander – Economic Geography
4. Alexander – Geography of Manufacturing
5. Buchanan and Estall – Economic Geography
6. Miller – Geography of Manufacturing
7. Kashi Nath Singh – Arthik Bhugol (Hindi)
8. Guha and Chattoraj – Economic Geography
9. Negi – Resources Geography (English & Hindi)
10. Kaushik and Sharma – Sansadhan Bhugol (Hindi)
11. Mamoria – Arthik Bhugol (Hindi)
12. Haggett – Geography, A Modern Synthesis
13. Prithwish Roy – Economic Geography – A Study of Resources
14. Goh Cheg Leong & Gilliam C. Morgan – Human and Economic Geography

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GEOGRAPHY

B.A. Honours Part – III

PAPER – V (Full Marks – 100)

GEOGRAPHICAL THOUGHT AND HUMAN 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.

SECTION - A

GEOGRAPHICAL THOUGHT

- Unit – 1 :
- Meaning, and Definition of Geography
 - Its relationship with other sciences
 - Contribution of Ancient Geographers: Eratosthenes, Ptolemy
 - Contributions made by Humboldt, Ritter, Ratzel, Vidal de la Blache and Mackinder in the field of Geography
- Unit – 2 :
- **Dualism in Geography:** Determinism Vs Possibilism and Neo-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 organizations of the following tribes – Eskimo, Bushmen, Santhal, Oraon
- Unit – 5 :
- Urbanization and related problems
 - Growth Pole theory
 - Christaller's Central Place Theory
 - Migration – Internal and International

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Books Recommended:

1. Hartshorne – Nature of Geography
2. R. Minshull – Changing Nature of Geography
3. Freeman – A hundred years of Geography
4. Hussain M. – Geographical Thought
5. Kaushik – Bhaugolik Chintan
6. Adhikari S. – Human Geography
7. Robinson – Human Geography
8. Emery Jones – Human Geography
9. S. D. Kaushik – Manav Bhugol Ke Siddhanta (Hindi)
10. Chandna and Sidhu – Geography of Population (Hindi and English)
11. Bansal – Nagriya Bhugol (Hindi)

Part – VI (Full Marks – 100)

ENVIRONMENTAL GEOGRAPHY & REMOTE SENSING

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.

SECTION A

ENVIRONMENTAL GEOGRAPHY

Unit – 1 : Introduction to environmental Geography

- Meaning, Concept, and scope of environmental Geography
- Factors affecting environment
- Ecology and Eco system
- Major Ecosystems of the world
- Ecological balance and imbalance

Unit – 2 : Biogeography

- Nature, scope and significance of Biogeography
- Bio-energy cycles
- Concept of Zoogeography
- Biodiversity and Hotspots

Unit – 3 : Environmental degradation and Management

- Natural Disasters : Drought, Flood and Earthquakes – Causes, effects and Mitigation
- Rain water harvesting
- Watershed Management
- Sustainable Development
- Eco-Tourism

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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 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 migrations
 - Malthusian Theory of Population
- Unit – 3 :**
- Growth patterns 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 :
 - Occupational 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

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- Unit – 5 :
- Geological Evolution of
 - Himalayas
 - Chotanagpur plateau
 - Rajmahal highlands
 - Deccan Trap
 - Aravalli

Books Recommended:

1. Wadia – Geology of India
2. Krishnan – Geology of India
3. P. K. Mukherjee – A Textbook of Geology
4. Brown and Dey – Mineral Wealth of India
5. Tyrrol – Petrology
6. M. Wadia – Minerals of India
7. Bateman – Economic Mineral Deposits

Part – VII (Full Marks – 100)

OPTIONAL PAPER

GROUP - C

CARTOGRAPHY AND MAP MAKING

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 :
- 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 use of the following map projections (bi-co-ordinates)
 - Zenithal – 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

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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 be required to answer five questions selecting one question from each Unit.

- Unit - 1 :**
- Concept and scope of Urban Geography
 - Origin and Evolution of towns
 - Site and Situation
 - Locational 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 Ullman
- 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

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9. Alexander – Economic Geography
10. Kashi Nath Singh – Arthik Bhugol (Hindi)
11. Guha and Chattoraj – Economic Geography
12. Negi – Resources Geography (English & Hindi)
13. Mamoria – Arthik Bhugol (Hindi)

PAPER - I (B) (Subsidiary)

PRACTICAL

Full Marks – 25

Unit – 1 :

- | | |
|--|-----------------|
| (a) Cartograms – Simple and Compound Bar diagrams
Pie diagrams | 10 Marks |
| (b) Enlargement and reduction of maps,
Interpretation of weather maps | 10 Marks |

Unit – 2 : Record of Practical work and viva – voce	5 Marks
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PAPER – II (B) (Subsidiary)

PRACTICAL

Full Marks – 25

Unit – 1 :

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

Unit – 2 : Record of Practical Work and Viva – Voce. **5 Marks**

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