# 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

10	Unit – 1 :	<ul> <li>Origin of solar system (Theories of Kant and Laplace, Jeans &amp; Jeffrey's &amp; Big Bang Theory).</li> </ul>
1		Internal structure of the earth
~		Isostasy : Pratt's and Airy's views
-0		Earthquake and Vulcanism
	Unit – 2 :	Kober's and Holme's views on mountain building
-	Unit – 2	*
-		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
		<ul> <li>Composition and Structure of Atmosphere</li> <li>Classification of Air masses</li> </ul>
-		• Fronts
-		• Cyclones
		Koppen's and Thornthwaite's Scheme of classification of Climate
-0		<ul> <li>Climatic changes – causes and evidences</li> </ul>
-2	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
٩	) <sup>·</sup>	• Ocean currents • Tides • Tid
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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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# SECTION - B

	SECTION – B	
Unlt – 3 :	<u>China</u>	
	Physiography	
	Climate and Agricultural regions	
	Industrial Development	
	<ul> <li>Industries – Iron and Steel, Cotton Textile</li> </ul>	
	Population	
Unit – 4:	Japan	
	Physiography	8
	• Fisheries	
	<ul> <li>Industries – Iron &amp; Steel and Automobile</li> </ul>	
	Industrial Regions	
3	Population	
Unit – 5:	Neighbouring Countries	
	<ul> <li>A balanced Geographical account of Bangladesh, Nepal</li> </ul>	, Pakistan, Sri Lanka, Bhutan

# Books Recommended:

- 1. L. D. Stamp - Asia (Hindi & English)
- 2. Cressey – Asia's Lands and People (Hindi & English)
- 3. Ginsberg - Pattern of Asia
- 4. Robinson - Monsoon Lands
- 5. Dobby - Monsoon Asia
- 6, Kasi Nath Singh and others - Monsoon Asia (Hindi)
- 7. Mamoria and Agrawal - Asia Ka Pradeshik Bhugol (Hindi)
- 8. Tirtha - Geography of Asia

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# PAPER - I (B) & II (B)

### PRACTICAL – 50 MARKS

Unit – 1 :	. Scales : Simple, Comparative and Diagonal	15 Marks
	Enlargement and reduction of maps	
Unit – 2:		10 Marks
2. 12. 12.	<ul> <li>Interpretation of Topographical maps</li> <li>Cartograms : Bar diagram – Simple and Compound, Pie Diagram</li> </ul>	
Unit – 3:	<ul> <li>Map Projections</li> <li>Cylindrical Equi-distant</li> <li>Cylindrical Equal area</li> <li>Zenithal Equi-distant</li> <li>Zenithal Equal Area</li> </ul>	15 Marks

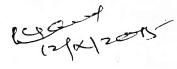
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Conical with two standard parallels

Unit – 4 : Record of Practical work and Viva – Voce

### Books Recommended:

- 1. Singh and Dutta Elements of Practical Geography
- 2. Singh and Kanaujia Practical Geography
- 3. Jagdish Singh and others Prayogik Bhugol (Hindi)
- 4. L. R. Singh Fundamentals of Practical Geography
- 5. Ashish Sarkar Practical Geography A Systematic approach



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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 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

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- Agricultural regions
- River Valley Projects: Gandak, Kosi, Son
- Flood and Drought Problems
- Population

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### looks Recommended:

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

### 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 require answer five questions selecting one question from each Unit

### SECTION - A

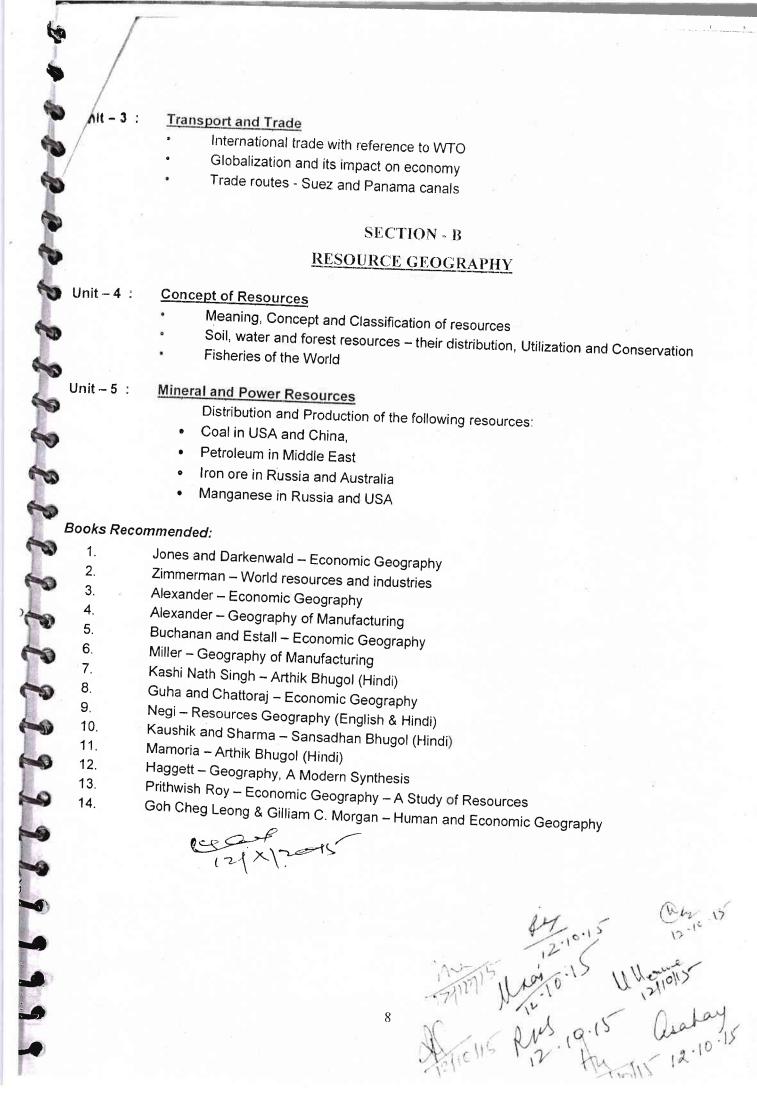
### ECONOMIC GEOGRAPHY

### Agriculture Unit – 1 :

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

### Unit – 2 : Industries

- Industrial Location Theory of Weber
- Industry Industry 12 px 2000 7 12/10/15 UV 2000/15 12 px 2000 7 12/10/15 UV 2000 7 12/10/15 12 px 2000 7 12/10/15 UV 2000 7 12/10/15 12 px 2000 7 12/10/15 UV 2000 7 12/10/15 12 px 2000 7 12/10/15 UV 2000 7 12/10/15 UV 2000 7 12/10/15 12 px 2000 7 12/10/15 UV 2000 7 12/10/15 UV 2000 7 12/10/15 12 px 2000 7 12/10/15 UV 2000 7 12/15 UV 20000 7 12/15 UV 200000 7 12/15 UV 20000 7 12/15 UV 20000 7 12/15 UV 20000 7 12 Agricultural Location Theory of Von Thunen
- Iron and Steel industry
- Cotton Textile industry
- Sugar Industry



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

# PRACTICAL - 50 MARKS

### 15 Marks

### Cartograms Unit-1:

- Proportionate Circles
- Climograph
- Hythergraph
- Isopleth and Choropleth
- Age and Sex Pyramid

### 15 Marks

### Projections Unit – 2 :

- Bonne's Projection
- Polyconic, Sinusoidal and Mercator's Projection Polar cases of Gnomonic, Stereographic and Orthographic

10 Marks

### Simple Statistical Techniques Unit – 3 :

- Mean
- Median
- Mode
- Quartile and Standard Deviation

10 Marks

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### Unit – 4 :

Record of Practical work and viva - voce

# Books Recommended:

- Singh and Dutta Elements of Practical Geography
  - Singh and Kanaujia Practical Geography 1.
  - Jagdish Singh and others Prayogic Bhugol (Hindi) 2.
  - Monkhouse and Wilkinson Maps and Diagrams 3.
  - L. R. Singh Fundamental of Practical Geography 4.
  - Ashish Sarkar Practical Geography A Systematic approach 5.
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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

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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
- 1 112/11/15 12.10.15 12/11/15 12.10.15 12/11/15 12.10.15 12/10/15 P.M. 10.15 (2000) 12/10/15 P.M. 10.15 (2000) Migration – Internal and International

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### cits Recommended:

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

# 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

### Introduction to environmental Geography Unit – 1 :

- 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**

### Environmental degradation and Management Unit – 3 :

Natural Disasters : Drought, Flood and Earthquakes - Causes, effects and Mitigation 5/15 1/2:10.15 1/1 1/ Vienare 12/10/15 12/10/15

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- Rain water harvesting
- Watershed Management
- Sustainable Development
- Eco-Tourism

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### SECTION - B REMOTE SENSING

- Meaning and Scope of Remote Sensing
  - History of Remote Sensing
    - Process and stages of Remote Sensing
  - Properties of electromagnetic energy –wave length, frequency and velocity
- Unit 5 :

Unit – 4 :

- Electro magnetic spectrum
- Interaction of electromagnetic energy in the atmosphere

Difference between air photography and image

- Interaction of electromagnetic energy with earth surface features
- Meaning, concept and objectives of GIS

### Books Recommended:

- 1. Singh Savindra Environmental Geography (Hindi, English)
- 2. Sharma P. D. Ecology and Environment
- 3. Bhattacharya Biogeography
- 4. Prasad G. Environmental Geography
- 5. Chandana Environmental Geography
- 6. Henry and Kainke Environmental Science and Engineering
- 7. Srivastava V. R. Paryavaran and Paristhitiki
- 8. Saxena H. M. Environmental Geography
- 9. H. Robinson Biogeography
- 10. Cunninghum Environmental Science
- 11. Odum Fundamentals of Ecology
- 12. Thomas M. Lillesand Remote Sensing and Image Interpretation
- 13. John R. Jenson Remote Sensing of Environment an earth resource Perspective

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- 14. Dr. Devi Dutt Chauniyal Remote Sensing and GIS (Hindi)
- 15. Keith C. Clarke Getting Started with GIS
- 16. Siddhiqui M. Introduction of GIS
- 17. Burrough & Mcdonell Principles of GIS

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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 devel 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

Population composition in India :

Unit – 4 :

- 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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### ooks Recommended:

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- J. Clarks Population Geography
- B. Garnier Geography of Population
- 3. G. Trewartha - A Geography to Population Geography
- W. Zelinski A prologue to population Geography 4.
- 5. Agarwal -- India's population problems
- Mamoria India's population problems 6.
- 7. Chandana and Sindhu – Geography of Population (English & Hindi)
- A Bose Pattern of population Growth in India 1951-61 8.
- A Bose A Study in India's Urbanization 1961-71 9.
- 10. S. D. Kaushik – Manav Bhugol Ka Sidhanta (Hindi) 11.
  - R. C. Chandana Geography of Population

# 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 be required to answer five questions selecting one question 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 :

Unit -- 3 👔

- Classification, Mode of occurrence and distribution of
  - Iron ore, Copper, Mica, Manganese, Coal, Petroleum and Atomic Minerals
- 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, Metamorphic rocks
  - Metamorphism

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hit - 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 Meneral Deposits

# <u>Part – VII (Full Marks – 100)</u>

# **OPTIONAL PAPER**

### **GROUP - C**

# CARTOGRAPHY AND MAP MAKING

Ten questions will be set in all selecting two questions from each Unit. Examinees will be require 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 projectio
  - Constant of Cone

Cylindrical - Equal area, Mercator's Projection MULTIS Days 15

Unit – 4 :

- Acquaintance with Theodolite,
- Principle of Sextant
- Shape and Size of the earth
- Scales and their types
- Scale of spheres and circles
- Vernier scale

- Modern techniques of map making
- Survey of India maps
- Format and Symbols of map
- Acquaintance with photogrammetry
- Types and Interpretation of aerial photographs

- Jameson and Ormsby – Mathematical Vol. I and II
  - Singh and Dutta Practical Geography
    - R. P. Mishra Fundamentals of Cartography
      - Kanetkar Surveying

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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 requ 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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//	PAPER VIII	
/	PRACTICAL (Full Marks -	- 100 Marks)
	SECTION - A (50 Mai	
Unit – <b>1</b>	: <u>Surveying</u>	
	Plane Table Survey	15 Marks
	Resection with Plane Table	
	Open and Closed Traverse with Prismatic Co	
	Levelling	ompass
Unit – 2 ;	the the last second distance of	45 14-1
	<ul> <li>Geological section and Interpretation of Geological</li> </ul>	15 Marks
11		ogioai maps
Unit – 3 :	Mentineation of Rocks and Minerals	10 Marks
	<ul> <li>Record of Practical work and viva – voce</li> </ul>	10 Marks
	SECTION D (50 DA )	
Unit – 4 :	SECTION - B (50 Mark	ks)
	Project Dame ( . t	30 Marks
	<ul> <li>Project Report : A short analysis with map bas collection of data and</li> </ul>	sed on field study and
	collection of data on any topic approved by the	e Head of the Department
Unit – 5 :	Tour Report	20.14
	<ul> <li>A geographical account written by the students</li> </ul>	20 Marks
	the following regions with ensure it	s after visiting any of
	the following regions with appropriate maps, di (to be approved by the H.O.D.) Duration – a maximum of 15	agrams and data
		o days
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	stat egiono in mula	
	(c) Chotanagpur plateau (d) Central India	
		-
	(e) Northern and Eastern Himalayan regions (f) Rajgir	5
Ooks Par-	OR any other region <i>ommended:</i>	
eens neco		
1	Singh and Dutta – Elements of Practical Geography	
1. 2	Singh and Kanaujia – Practical Geography	
2.	landish Singh and a	6.0
2. 3.	Jagdish Singh and Other – Prayogik Bhugol	
2. 3. 4.	Jagdish Singh and Other – Prayogik Bhugol DD Satpathi – Ganitik Bhugol I and II	Robine 19 11
2. 3.	Jagdish Singh and Other – Prayogik Bhugol	12-1- 12-10 15 11

# B.A. - I GEOGRAPHY (SUBSIDIARY)

# PAPER - I (A) (Full Marks - 75)

### **SECTION - A**

# PHYSICAL AND ECONOMIC GEOGRAPHY

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

- Unit 1 : Origin of the Earth Internal structure of the Earth, Isostasy, Continental drift, Kober's and Holme's theory of mountain building.
- Unit 2 : Normal Cycle of Erosion, Arid topography, Volcanic topography, Karst topography
- Unit 3 : Salinity of Ocean water, Relief of the Ocean floor, Ocean currents. Composition and Structure of Atmosphere, Rainfall and clouds

### **SECTION - B**

- Unit 4 : Agriculture - Subsistence, Commercial grain farming, Plantation, Minerals - Coal, Petroleum, Iron- ore.
- Unit 5 : Selected industries - Iron and steel in USA and Japan., Cotton textile of U.S.A. and China Major trade routes – Suez Canal, Panama Canal

### Books Recommended:

- 1. P. Dayal – Bhautik Bhugol (Hindi)
- 2. Savindra Singh – Bhu Akriti Vigyan (Hindi)
- 3. C. B. Mamoria – Bhautik Bhugol (Hindi)
- 4. Balbir Singh Negi - Climatology and Oceanography (Hindi)

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- 5. P. Dayal – A Text Book of Geomorphology
- R. N. Tikka Physical geography 6.
- 7. Jones and Darkenwald – Economic Geography
- Zimmerman World Resources and Industries. 8.

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13.

Alexander – Economic Geography

- Kashi Nath Singh Arthik Bhugol (Hindi)
- Guha and Chattoraj Economic Geography
- Negi Resources Geography (English & Hindi)
- 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,		

10 Marks

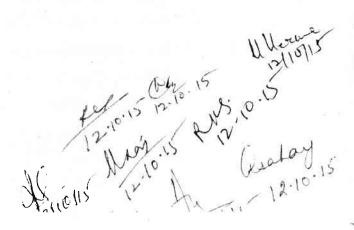
Unit – 2 :

2: Record of Practical work and viva – voce

Interpretation of weather maps

5 Marks

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# B.A. - II GEOGRAPHY (Subsidiary)

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### PAPER - II (A)

### **GEOGRAPHY OF INDIA**

Ten questions will be set in all selecting two questions from each Unit. Examinees will be requanswer five questions selecting one question 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.

### Books Recommended:

- Spate and Learmonth India and Pakistan
- 2. Wadia Geology of India
- 3. Singh, R. L. India: A Regional Geography
- Gopal Singh Geography in India
   Sharma and Coutinho Economic
- Sharma and Coutinho Economic and Commercial Geography of India
   Manoria Bharat Ka Bhugal (Usad)

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- Manoria Bharat Ka Bhugol (Hindi)
   Khullar India : A Comprehensive O
- Khullar India : A Comprehensive Geography
   B. C. Tiwari Geography of India
- R. C. Tiwari Geography of India
   M. Attaullah & Md. Muslimus III
- M. Attaullah & Md. Muslimuddin Bihar Ka Adhunik Bhugol (Hindi)
   Singh and Kumor A Managama La Galia
- 10. Singh and Kumar A Monograph of Bihar
- 11. Dr. L. N. Ram edited A Systematic Geography of Bihar

199 x/20

# PAPER - II (B) (Subsidiary)

PRACTICAL

Full Marks - 25

 Unit – 1 :

 (a)
 Simple Statistical Methods – Mean, Median and Mode, Standard Deviation

 (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

CIS2015

180.15 28.10.2015

