



**TRIPURA UNIVERSITY**  
(A Central University)  
Suryamaninagar-799022

**Syllabus  
OF  
Geography  
(General & Major)**

**Semester -1 to 5**

**2014**

**GENERAL COURSE  
SEMESTER - I  
PAPER - I (THEORETICAL)  
PHYSICAL GEOGRAPHY  
Full Marks - 100**

**UNIT – 1: Nature of Geography [20 Marks]**

- Definition, Nature and Scope of Geography.
- Main Divisions of Geography – Systematic and Regional, Physical and Human.
- Interrelation of Geography with other disciplines.
- Geological Time Scale.
- Internal structure of the earth.
- Rock types and their origin, Classification and Characteristics.

**UNIT – 2: Geotectonic and Geomorphology [20 Marks]**

- Earth Movement: Types of Folds and Faults.
- Plate Tectonics: Orogenesis, Earthquake, Vulcanicity, Seafloor spreading.
- Weathering and Erosion, Mass Wasting.
- Processes and Landforms: Fluvial, Glacial, Arid, Coastal.

**UNIT – 3: Climatology [20 Marks]**

- Composition and Structure of the atmosphere.
- Atmospheric Temperature: Insolation and Heat Budget, Horizontal and Vertical distribution of temperature.
- Atmospheric Pressure and Wind system: Horizontal distribution of pressure, Factors affecting wind motion, Planetary, Periodic and Local Winds.
- Atmospheric moisture: Humidity, Evaporation, Condensation, Precipitation, Types of rainfall.
- Mechanism of Indian Monsoon.

## UNIT - 4: Hydrology, Soil and Biogeography

[20 Marks]

- Hydrological Cycle, Freshwater System
- Importance of Ocean Currents, Temperature and Salinity of ocean water
- Soil Profile, Major Soil types of the World: Zonal, Azonal and Intrazonal.
- Concept of Biomes highlighting major characteristics of Flora and Fauna.
- Biogeography: Concept of Ecosystem, Components of Ecosystem, Trophic Structure, Food Chain and Food Web.

## INTERNAL ASSESSMENT --- 20 Marks

### References:

1. Adhikari, S. (2006): Fundamentals of Geographical Thought, Chaitanya Publishing House, Allahabad.
2. Dasgupta, A. and Kapoor, A. N. (1997): S. Chand & Company Ltd. New Delhi.
3. Singh, S. (2009): Prayag Pustak Bhawan, Allahabad.
4. Singh, S. (1997): Physical Geography, Prayag Pustak Bhawan, Allahabad.
5. Lal, D. S. (1998): Climatology, Sharada Pustak Bhawan, Allahabad.
6. Khullar, D. R. (2003): India-- A Comprehensive Geography, Kalyani Publishers, Chennai.
7. Ahamed, R. (2000): Abahowa O Jalabayu Bigyan (Bengali), Srijan Books and Stationary, Bangladesh.
8. Bandhopadhyay, T. and Sil, A. (2011): Adhunik Bhu Parichya (Bengali), Chhaya Prakashon, Kolkata.
9. Chakraborty, S. C. (2007): Natural Hazards and Disaster Management, Pragatisil Prakashak, Kolkata.
10. Futehally, L. (1994): Our Environment, National Book Trust, India.
11. Singh, S. (2001): Environmental Geography, Prayag Pustak Bhawan, Allahabad.

**GENERAL COURSE  
SEMESTER – II  
PAPER – II A (THEORETICAL)  
HUMAN GEOGRAPHY  
Full Marks – 50**

**UNIT – 1: Population Geography [20 Marks]**

- Concept and Scope of Human Geography.
- Composition, Growth, Distribution and Density of Population of the World.
- Concept of Fertility, Mortality and Demographic Transition.
- Migration.

**UNIT – 2: Cultural and Settlement Geography [20 Marks]**

- Racial Divisions and Distribution and Linguistic Distribution of the World.
- Rural Settlement: Types and patterns in India.
- Urban Settlement: Definition and Types, Size-Classes and Distribution.
- Urban Issues: Urban Infrastructure, Concept of Urban Morphology and Urban Planning.

**INTERNAL ASSESSMENT --- 10 Marks**

*References*

1. Chanda, R. C. (2002): Geography of Population, Kalyani Publishers, Chennai, Kolkata.
2. Ray Chaudhuri, J. (2009): An Introduction to Development and Regional Planning, Orient BlakSwan.
3. Ghosh, S. (2007): Introduction to Settlement Geography, Orient BlakSwan.
4. Mandal, R. B. (2001): Introduction to Rural Settlement, Concept Publishing Company, New Delhi.
5. Mandal, R. B. (2000): Urban Geography, Concept Publishing Company, New Delhi.
6. Sen, J. (1998): Janabasati Bhugol (Bengali), Paschimbanga Rajya Pustak Parsad.
7. Husain, M. (2002): Human Geograpgy, Rawat Publication, New Delhi.
8. Sen, J. (2012): Manabio Bhugol (Bengali), Amar Pustakalaya, Kolkata.
9. Sen, J. (2010): Janasankha Bhugol (Bengali), Books and Allied (Private) Ltd, Kolkata.
10. Pradhan, N. and Bhattacharya, D. (2004): Adhunik Bhugol (Bengali), Naboday Publication, Kolkata.

GENERAL COURSE  
SEMESTER - II  
PAPER - II B (PRACTICAL)  
Full Marks - 50

- Scale: Linear and R.F., Vernier, Diagonal. [05 Marks]
- Study and Interpretation of Weather Maps of India:  
(i) Rainy Season and (ii) Winter Season. [10 Marks]
- Interpretation and Drawing of Temperature – Rainfall Graph. [05 Marks]
- Climatological Instrument reading:  
(i) Fortein's Barometer, (ii) Dry and Wet Bulb Thermometer, (iii) Six's Maximum and Minimum Thermometer. [05 Marks]
- Concept of Contour, Major Relief Features, Drainage Patterns, Broad Physiographic Divisions. [10 Marks]
- Laboratory Notebook and Viva-Voce. [05 Marks]

INTERNAL ASSESSMENT --- 10 Marks

*References:*

1. Mitra, K., Ghosh, K. and Das, M. (2006): B.A. Honours Practical Geography, Kalyani Publishers, Kolkata.
2. Mitra, K., Ghosh, K. and Das, M. (2006): B.A. General Practical Geography, Kalyani Publishers, Kolkata.
3. Bandhopadhyay, T. and Sil, A. K. (2004): Beboharik Bhugol Parichaya (Bengali), Chhaya Prakasoni.
4. Sarkar Asish (1998): Practical Geography- A Systematic Approach, Orient Longman.
5. Singh, R. P.B and Singh. R. L (2002): Elements of Practical Geography, Kalyani Publishers, New Delhi.
6. Hazra, Y. and Das, D. (2007): Snatak Beboharik Bhugol (Bengali), Chhaya Prakasoni, Kolkata.

**GENERAL COURSE  
SEMESTER – III  
PAPER – III A (THEORETICAL)  
ECONOMIC GEOGRAPHY  
Full Marks – 50**

**UNIT – 1: Economic Resources [20 Marks]**

- Resource: Concept, Classification and Significance.
- Lumbering in Temperate and Tropical Forests.
- Fishing: Types of fishing; Major Commercial Marine Fishing Grounds in Temperate and Tropical Belts.
- Livestock Farming in Temperate Grasslands.
- Agriculture: Intensive Subsistence Farming in Monsoon lands -- Rice; Extensive Commercial Farming in Temperate lands -- Wheat; Plantation Farming in Tropical lands -- Tea, Coffee and Rubber; Mixed Farming.

**UNIT – 2: Minerals, Energy and Industrial Resources [20 Marks]**

- Distribution, Production and Utility of major minerals: Iron Ore and Manganese.
- Distribution, Production and Utility of Conventional Energy Resources: Coal, Petroleum, Natural Gas, Minerals for Nuclear Energy -- Uranium and Thorium; Non-Conventional Energy Resources: Solar, Water, Wind, Biomass and Tides.
- Location and Production of Industries: Iron and Steel in India and UK, Aluminium in India and USA, Cotton Textile in India and USA, Heavy Chemicals in India, Paper in India and Canada.

**INTERNAL ASSESSMENT – 10 Marks**

***References***

1. Alexanderson, C. (1971): Geography of manufacturing, Prentice Hall India, New Delhi.
2. Bandhopadhyay, T. K. and Sil, A. K. (2013): Adhunik Bhu Parichaya (Bengali), Scholar Books, -----.
3. Dhillon, J. S. (2004): Agricultural Geography, -----.
4. Guha, J.L. and Chatteraj, P.R. (1989): A New Approach to Economic Geography—A Study of Resources, The World Press private Ltd., Kolkata.
5. Hartshorn, T. A. and Alexander, J. W. (1988): Economic Geography, Prentice Hall India, New Delhi.
6. Leong, G.C and Morgan, G.C. (1975): Human and Economic Geography, Oxford University Press, Hong Kong.
7. Mamoria, C.B. (2006): Economic and Commercial Geography of India, Shiva Lal Agarwala and Company, New Delhi.
8. Paul, A. S. (2013): Sampad Samiksha (Bengali), Books and Allied Pvt. Ltd., Kolkata.
9. Roy, P. (2013): Economic Geography, A Study of Resource, New Central Book Agency, Kolkata.

GENERAL COURSE  
SEMESTER - III  
PAPER - III B (PRACTICAL)  
Full Marks - 50

- Cartograms: Concept, Drawing and Interpretation -- (35 Marks)
- Dots, Circles and Spheres.
  - Isopleth and Choropleth.
  - Age – Sex Structure.
  - Line Graph.
  - Flow Diagram.
  - Bar graphs: Simple, Compound and Composite.
  - Proportional Circles.
  - Proportional Squares.
- Laboratory Notebook and Viva-Voce. (05 Marks)

INTERNAL ASSESSMENT – 10 Marks

*References*

1. Bandhopadhyay, T. K. and Sil, A. K. (2004): Byaboharik Bhugol Parichaya (Bengali), Chhaya Prakasoni, Kolkata.
2. Hazra, Y. and Das, D. (2007): Snatak Byaboharik Bhugol, Chhaya Prakasoni (Bengali), Kolkata.
3. Monkhouse, F.J. (1971): Maps and Diagrams, Methuen, London.
4. Mitra, K., Ghosh, K. and Das, M. (2006): B.A. Honours Practical Geography, Kalyani Publishers, Kolkata.
5. Mitra, K., Ghosh, K. and Das, M. (2006): B.A. General Practical Geography, Kalyani Publishers, Kolkata.
6. Sarkar, A. (1998): Practical Geography- A Systematic Approach, Orient Longman Ltd.
7. Singh, R.L. and Singh, R.P.B. (2002): Elements of Practical Geography, Kalyani Publishers, New Delhi.

**GENERAL COURSE  
SEMESTER - IV  
PAPER - IV A (THEORETICAL)  
ENVIRONMENTAL ISSUES IN GEOGRAPHY  
Full Marks - 50**

**UNIT - 1: Extreme Events of Environment [20 Marks]**

- Global Warming and Climate Change.
- Deforestation and Loss of Biodiversity.
- Soil Erosion and Conservation.
- Natural Hazards: Geomorphic – Landslides and River bank erosion; Tectonic -- Earthquake; Climatic -- Flood, Drought and Tropical Cyclone.

**UNIT - 2: Environmental Pollution [20 Marks]**

- Definition and Meaning of Pollution and Pollutants.
- Sources, Impact and Control of the following:
  - Air Pollution.
  - Water Pollution.
  - Soil Pollution by pesticides.
  - Noise Pollution.

**INTERNAL ASSESSMENT – 10 Marks**

*References*

1. Chakraborty, S.C. (2007); Natural Hazards and Disaster Management, Pragatishil Prokashak, Kolkata.
2. Manivasakam, N. (2001): Environmental Pollution, NBT Publication, New Delhi
3. Paul, G. (2004): Paribesh O Dushan (Bengali), Dasgupta and Company Pvt. Ltd., Kolkata.
4. Roy, M. and Chakraborty, B. (2004): Paribesh (Bengali), Progressive Publishers, Kolkata.
5. Singh, S. (1997): Environmental Geography, Prayag Pustak Bhawan, Allahabad, India.
6. Saha, P. and Chakravarty, A.K. (Ed.) (2000): Environmental Studies, Allied Publishers Private Ltd., Kolkata, India.
7. Sen, J. and Sarkar, S. (2011): Environmental Science, Kalyani Publishers, New Delhi.
8. Sen, J. and Sarkar, S. (2003): Paribesh Bhugol (Bengali), Kalyani Publishers, New Delhi.
9. Valdiya, K.S. (Ed.) (2004): Coping with Natural Hazards – Indian Context, Orient Longman Private Ltd., Kolkata.

GENERAL COURSE  
SEMESTER - IV  
PAPER - IVB (PRACTICAL)  
Full Marks - 50

➤ Basic Statistical Techniques:

(25 Marks)

- Concepts on data and variables.
- Diagramatic representation of Frequency Distribution -- Histogram, Frequency Curve (Polygon) and Cumulative Frequency Curve (Ogive).
- Measures of Central Tendencies -- Mean, Median and Mode.
- Measures of Partition values -- Quartile, Decile and Percentile.
- Scatter Diagram and Drawing of Regression Line with eye estimation.

➤ Computer Assisted Mapping using MS Excel:

(10 Marks)

- Line Graph
- Bar Graph
- Pie Graph

➤ Laboratory Notebook and Viva-Voce.

(05 Marks)

INTERNAL ASSESSMENT - 10 Marks

*References*

1. Alvi, Z. (1995): Statistical Geography – Methods and Application, Rawat Publications, Jaipur.
2. Bandhopadhyay, T. K. and Sil, A. K. (2004): Byaboharik Bhugol Parichaya (Bengali), Chhaya Prakasoni, Kolkata.
3. Goon, A.M., Gupta, M.K. and Dasgupta, B. (1992): Fundamentals of Statistics, Vol. 1, The World Press Pvt. Ltd., Kolkata.
4. Goon, A.M., Gupta, M.K. and Dasgupta, B. (1992): Basic Statistics, Vol. 1, The World Press Pvt. Ltd., Kolkata.
5. Hazra, Y. and Das, D. (2007): Snatak Byaboharik Bhugol, Chhaya Prakasoni (Bengali), Kolkata.
6. Mitra, K., Ghosh, K. and Das, M. (2006): B.A. Honours Practical Geography, Kalyani Publishers, Kolkata.
7. Mitra, K., Ghosh, K. and Das, M. (2006): B.A. General Practical Geography, Kalyani Publishers, Kolkata.
8. Sarkar, A. (1998): Practical Geography- A Systematic Approach, Orient Longman Ltd.
9. Singh, R.L. and Singh, R.P.B. (2002): Elements of Practical Geography, Kalyani Publishers, New Delhi.

GENERAL COURSE  
SEMESTER – V  
PAPER – VA (THEORETICAL)  
REGIONAL GEOGRAPHY  
Full Marks – 50

ncy	<b>UNIT -- 1: Geography of India</b>	[20 Marks]
	<ul style="list-style-type: none"><li>• Physiography and Drainage.</li><li>• Climate, Natural Vegetation and Soil.</li><li>• Agriculture: Characteristics, Regions (after ICAR) and Problems.</li><li>• Population: Distribution, Density and Growth.</li></ul>	
	<b>UNIT – 2: Geography of North-East India with special reference to Tripura</b>	[20 Marks]
	<ul style="list-style-type: none"><li>• Physiography and Drainage.</li><li>• Climate, Natural Vegetation and Soil.</li><li>• Jhum cultivation, Transport facilities and Industrial backwardness, Tourism.</li><li>• Population: Characteristics with ethnic composition.</li></ul>	

**INTERNAL ASSESSMENT – 10 Marks**

*References*

1. Acharya, R. Bera, G. and Chowdhury, J. (Ed.) (2010): Shifting Cultivation: In Search of Alternatives, Abhijeet Publications, New Delhi.
2. Bhattacharyya, N. N. (2005): North East India—A Systematic Geography, Rajesh Publications, New Delhi.
3. Bhowmik; I. and Chakraborti, D. (ed.) (2011): Resources and Economy of Tripura, Eastern Book House Publishers (India), Guwahati.
4. Khullar, D.R. (2001): India – A Comprehensive Geography, Kalyani Publishers, Kolkata.
5. Mamoria, C. B. (1975): Geography of India, Shiva Lal Agarwala and Company, Agra, India.
6. Sharma Cutinho (1997): Economic Geography of India, Ludhiana.
7. Taher, M. and Ahmed, P. (2001): Geography of North-East India, Mani Manik Prakash, Guwahati, India.

GENERAL COURSE  
SEMESTER - V  
PAPER - VB (PRACTICAL)  
Full Marks - 50

- Map Projection: Concept, Classification and Drawing:
  - Simple Conical Projection with one standard parallel.
  - Cylindrical Equal Area Projection.
  - Sinusoidal Projection.
  - Polar Stereographic Projection.(12 Marks)
- Laboratory Notebook and Viva-Voce.(03 Marks)
- Field Report and Viva-Voce.(15 + 10 = 25 Marks)

INTERNAL ASSESSMENT - 10 Marks

*References*

Sarkar, A. (1998): Practical Geography- A Systematic Approach, Orient Longman Ltd.