



# **University of Gour Banga**

*Syllabi for*

**Three Years General Degree Course**

(Under 1+1+1 System)

**SUBJECT: GEOGRAPHY**

**University of Gour Banga**

**P.O. – Mokdumpur,**

**Dist. – Malda**

**West Bengal**

**PIN - 732103**



**Distribution of Marks**

Total Marks = 400 (150+150+100)

Theory = 250 (100+100+50)

Practical = 150 (50+50+50)

**Question pattern**

50 Marks = 1 Mark x 15 MCQs + 10 Marks X 2 Question + 5 Marks x 3 Questions

**Word limits for each category of descriptive type questions:**

10 marks: 600 - 700

5 marks: 300 - 350

**Duration of Examination:**

**1. Theory paper of 50 marks: 2 hours**

**2. Practical paper of 50 marks: 4 hours**



## SUMMARY OF SYLLABUS

### PART-I

Paper	Allotted marks	Groupwise marks distribution	Question type	Word Limitation
I	50	Physical Geography - 50	1 mark x 15 MCQs	
			10 marks x 2 Questions	600-700
			5 marks x 3 Questions	300-350
II	50	Climatology & Biogeography - 50	1 mark x 15 MCQs	
			10 marks x 2 Questions	600-700
			5 marks x 3 Questions	300-350
III	50	Practical-50	--	--

### PART-II

Paper	Allotted marks	Groupwise marks distribution	Question type	Word Limitation
IV	50	Human Geography - 50	1 mark x 15 MCQs	--
			10 marks x 2 Questions	600-700
			5 marks x 3 Questions	300-350
V	50	Economic Geography - 50	1 mark x 15 MCQs	--
			10 marks x 2 Questions	600-700
			5 marks x 3 Questions	300-350
VI	50	Practical-50	--	--

### PART-III

Paper	Allotted marks	Groupwise marks distribution	Question type	Word Limitation
VII	50	Regional Geography of India-50	1 mark x 15 MCQs	--
			10 marks x 2 Questions	600-700
			5 marks x 3 Questions	300-350
VIII	50	Practical-50	--	--



## **PART-I**

### **PAPER-1**

#### **1.0.0. Physical Geography**

##### **1.1.0. Geotectonic:**

- 1.1.1. Origin of the earth: Supernova and Tidal Hypothesis, Continental drift theory, interior of the earth, earthquakes: causes and consequences.
- 1.1.2. Rocks: origin, classification, characteristics, influence of rocks on landforms and topography.

##### **1.2.0. Geomorphology:**

- 1.2.1. Geomorphic agents and processes: works of running water, wind, waves, glaciers, Concept of fluvial cycle of erosion and its interruption.
- 1.2.2. Weathering, mass wasting and topographic expression.

##### **1.3.0. Hydrology:**

- 1.3.1. Hydrological Cycle; Factors affecting surface run-off; Ground water – concept and vertical distribution.

##### **Suggested Readings:**

1. Geomorphology - S.Singh- Prayag Pustak Bhawan.
2. Physical Geography - S.Singh- Prayag Pustak Bhawan
3. A Text Book of Geomorphology – P.Dayal-Sukla book depot,Patna.
4. Tectonics and Land forms – C,D.Ollier-Longman,Londo.
5. Bhumirup Udbhab O Prakriti (vol-1&vol-2)-S.Mukhapadhy&R.Das.-W.B.State Book Board.
6. Prakritik Bhugol(vol-1)-K.Mitra, J.Sen & P.Sengupta-Kalyani Publishers.
7. Bhugathan.Bhualoran O Bhumirup vidya-A.K.Pal-Progotishil Publishers.
8. Adhunik Bhu-Parichya-Bandopadhy & Shil – Chhaya Prakashani.
9. Adhunik Bhumirup-vigyan-S.Basu & R.Maity-Nobodaya Publication.



**PAPER-II**

**2.0.0. Climatology & Biogeography**

**2.1.0. Climatology:**

- 2.1.1. Concepts of weather and climate, controlling factors of climate, Atmospheric layers, Atmospheric Temperature, Pressure-belts and wind systems: Planetary and periodic winds, Monsoon, local winds. Insolation and heat budget,
- 2.1.2. Atmospheric moisture: Humidity, types of precipitation, evaporation, condensation, Greenhouse effect and its impact
- 2.1.3. Koppen's Classification of world climate

**2.2.0. Bio-Geography:**

- 2.2.1. Factors of soil formation, Soil profiles, soil erosion and conservation.
- 2.2.2. Factors responsible for plant growth; Adaptation mechanism, characteristics of mangrove and xerophytes.

**Suggested Readings:**

- 1. Environmental Geography - S.Singh- Prayag Pustak Bhawan.
- 2. Climatology – D.S.Lal – Chaitanya Publishing House.Allahabad.
- 3. Abohawa O Jolobayu-A.Shil-The Himalayan Books.
- 4. Prakritik Bhugol(vol-2)-K.Mitra, J.Sen & P.Sengupta-Kalyani Publishers.
- 5. Bio-Geography- A.Shil-The Himalayan Books.
- 6. A Text Book of Soil Science – T.D.Biswas& S.K.Mukharjee- Tata Mcgraw Hill Pub.comp.LTD.
- 7. Adhunik Soil Science-Delewar Sadik and Kobir-Bai-Bitan,Dhaka.
- 8. Soil Science-P.K.Basu-Books & Allied LTD.

**PAPER-III**

**3.0.0. Practical-1**

**3.1.0. Scale:**

Scale Conversion, Simple Scale and Comparative

(5)



**3.2.0. Map Projection:**

Gnomonic (Polar Case) Projection, Simple Conical (one standard parallel) Projection, Sinusoidal Projection, Cylindrical Equal Area (15)

**3.3.0. Cartograms:**

Simple Bar Digram, Choropleth, Proportional Divided Circles, Pie-graph, Age-sex Pyramid, Chorochromatic maps

(10)

**3.4.0. Interpretation of SOI Topographical Maps (Old series and OSM):**

Plateau area (scale 1:50,000) - broad physiography, drainage, natural vegetation, settlement, communication & transport. Simple profiles & transect chart. (15)

**3.5.0. Laboratory note-book and viva-voce:**

(3+2=5)

**Suggested Readings:**

1. Elements of Practical Geography-R.L.Singh & R. P.B.Singh- Kalyani Publishers.
2. Practical Geography-A.Sarkar-Orient Longman.
3. Cartography Thematic Map Design-B.D.Dent-William Brown Pub.
4. Advanced Practical Geography-P.Saha & P.Basu- Books & Allied LTD.
5. Practical Geography(Gen)-Mitra.Ghosh,Das- Kalyani Publishers.
6. Practical Geography-- A.Shil-The Himalayan Books.
7. Practical Geography-Prof.P.Das-Nabo Bharati Prokashani.
8. Practical Geography-D.Das & Y.Hazra.Chhaya Prokashani.



## PART-II

### PAPER-IV

#### 4.0.0. Human Geography

- 4.1.0. Human Geography: Scope and content. Factors affecting growth and development of human habitat. Man's adaptation to the environment; Mountains: Gujjar, Hot: Bushman, Foothills: Toto and Cold: Eskimo
- 4.2.0. Population: World population distribution and factors responsible for uneven distribution, growth of world population with special emphasis on Fertility, Mortality and Migration; Problems related to population growth
- 4.3.0. Concept of development, indicators of development, concept of underdevelopment. Concepts of overpopulation, underpopulation and optimum population
- 4.4.0. Rural & urban settlement: Definition, types and characteristics of settlements
- 4.5.0. Social Geography: Scope and content, Language, class, religion and caste

#### **Suggested Readings:**

- 1. Human and Economic Geography-Leong & G.C.Morgan
- 2. Human Geography-Majid Hussain
- 3. Adhunik Bhuparichoy-Tarun Kumar Bandyopadhyay and Ajit Kumar Shil
- 4. Samaj,Bhugoler Ruprekha-Jyotirmoy Sen
- 5. Jonoboshoti Bhugol- Jyotirmoy Sen
- 6. Human Geography-B.S.Neogi

### PAPER-V

#### 5.0.0. Economic Geography

- 5.1.0. Scope content, concept of economic activities and sectors of economy: primary, secondary and tertiary. Resource: meaning, classification, infra-structural facilities, resource conservation, resource development.
- 5.2.0. Forest Resource: Importance, Conservation; Concept of social forestry and Agro-forestry.
- 5.3.0. Agriculture: Concept, cultivation & their association with different natural & human conditions of the following cereal crops: Wheat, Rice & plantation crops: Tea; agricultural systems of the world: commercial grazing of cattle & sheep rearing.



5.4.0. Power: Coal, petroleum : world distribution; use, problems and prospects.

5.5.0. Industries: Factors affecting location of industries: Iron and Steel, Cotton Textile with special reference to India.

**Suggested Readings:**

1. Arthonoitik Bhugol o Shampad Shastrer Porichoy-Anish Chattopadhyay, T.D Publication
2. Shampod Samiksha –Ajit Kumar Shil, Himalayan Publication
3. Shampod Samiksha-Arun Shankar Pal
4. Shampod Samiksha-Goutam Mallik&Tarun Bandyopadhyay
5. Economic Geography-Prithish Roy
6. Resource Study- Prithish Roy
7. Economic Geography-J.L.Guha & P.R Chatteraj
8. Shampod Samiksha-- Jyotirmoy Sen

**PAPER-VI**

**6.0.0. Practical-2**

**6.1.0. Meteorological instruments:**

Rain Gauge, Maximum and Minimum Thermometer and Hygrometer (5)

**6.2.0. Graphical Presentation of Meteorological Data:**

Climograph, Hythergraph and Ergograph (5)

**6.3.0. Surveying:**

Chain survey, prismatic compass (closed traverse), plane table survey (radiation method) (15)

**6.4.0. Field Report :**

**6.4.1. Field Report Preparation**

General Guideline for the preparation of Field Report:

- Participation of each student in the Field Work is mandatory & Certificate of Supervisor regarding the participation in Field Work is to be attached in the Report.
- Field report is to be prepared by the student in his/her own hand writing.





- No part of the report should contain any photocopied or Printed/typed material.
- Length of the report not to exceed 1500 words.
- The Field Report should contain up to 10 pages for diagrams and maximum of 4 pages for photographs.
- The report is to be prepared for a C.D. Block /P.S./ Mouza/ G. P./ Municipality/ Sub-division/ Drainage Basin area primarily on the basis of field survey.
- Questionnaire(s)/ schedule(s) are to be prepared for collection of primary data and one of the same as filled in during the field work, duly signed by the concerned teacher, be annexed with the field report.
- The report should be prepared normally with primary data collected by field survey.
- Incorporation of secondary data should not exceed 1/4th of the total report.

(15 Marks)

**19.2.2. Viva-voce on Field Report**

- Duration of viva-voce: not to exceed 5 minutes. Each part is to be evaluated by separate examiner simultaneously.

(5 Marks)

**6.5.0. Laboratory notebook and viva-voce :**

(3+2=5)

**Suggested Readings:**

1. Byaboharik Bhugol-Ajit Shil
2. Byaboharik Bhugol-Dulal Chandra Das,Dr Judhishtir Hajra
3. Byaboharik Bhugol-Kalpana Mitra,Ghosh & Das
4. Byaboharik Bhugol-Pannalal Das
5. Byaboharik Bhugol- Arun Kumar Bandyopadhyay
6. Text Book of Geography-Md Zulfiker Ahmed Khan
7. Map work & Practical Geography-Gopal Singh
8. Maps and Diagrams-Monkhouse & Wilkinson



**PART-III****PAPER-VII****7.0.0. Regional Geography of India**

- 7.1.0. Relief, drainage, climate, soil, natural vegetation: types, characteristics and vegetation, deforestation and conservation of forests
- 7.2.0. Agriculture: salient features, problems and remedial measures.
- 7.3.0. Power: Coal, petroleum, hydel (use, distribution and associated problems); Non-conventional: Nuclear, wind, solar (use, distribution and associated problems)
- 7.4.0. Industry: Industrial regions; Hooghly Industrial Region with special reference to Jute, Ahmedabad-Vadodara-Jamnagar Industrial Region with special reference to Petrochemicals
- 7.5.0. Population: growth, distribution and migration; Ethnic study: Caste, Tribe (Santhals), Religion, Language.

**Suggested Readings:**

1. India Comprehensive study-Khuller- Kalyani Publishers.
2. Geography of India-C.B.Mamoria-Shivlal Agarwal,Agra.
3. Geography of India-Gopal Singh.-Atmaram &Sons.
4. Regional Geography of India & Remote Sensing-K.Mitra & P.Sengupta- Kalyani Publishers.
5. Economic Geography - P.Roy & S.Mukherjee – The New Central Book Agency.
6. Human Geography – Majid Husain \_ Rawat Publications.
7. Social Geography – A. Ahmad – Rawat Publications.

**PAPER-VIII****8.0.0. Practical-3****8.1.0. Statistics:**

Histograms, Frequency polygon, Frequency curve, Cumulative Frequency polygon, Cumulative Frequency curve (ogive), mean, median, mode, partition values, range, quartile deviation (20)



**8.2.0. Geological Map:**

Simple folded structures with determination of dip (15)

**8.3.0. Remote Sensing & GIS:**

Concept of remote sensing; Aerial photo interpretation with the help of pocket and mirror stereoscope; Applications of GIS. (10)

**8.4.0. Laboratory notebook and viva-voce :** (3+2=5)

**Suggested Readings:**

1. Elements of Practical Geography-R.L.Singh &R. P.B.Singh- Kalyani Publishers
2. Practical Geography-A.Sarkar-Orient Longman.
3. Advanced Practical Geography-P.Saha & P.Basu- Books & Allied LTD.
4. Practical Geography (Gen)-Mitra.Ghosh, Das- Kalyani Publishers.
5. Practical Geography-- A.Shil-The Himalayan Books.
6. Applied Geography\_ K.Mitra & P.Sengupta- Kalyani Publishers.
7. Statistical Tools & Techniques – P.K.Giri & J. Banerjee – Academic Publishers.

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