

2025

M.Sc. 1st Semester Examination

GEOGRAPHY

Paper : GEOE404A0/B0

Full Marks : 50

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Paper : GEOE404A0

**(Regional Geomorphology of
India and West Bengal)**

Group - A

Answer any *four* questions : $2 \times 4 = 8$

1. Mention two geomorphological characteristics of Terai region.
2. Why Chotanagpur Plateau is considered as the "Store house of minerals"?
3. What is "Swatch of No Ground"?
4. Distinguish between active delta region and moribund delta region.

P.T.O.

(2)

5. What kind of tectonic activities were responsible for the formation of Andaman and Nicobar Islands?
6. Identify major seismic zones in India.

Group - B

Answer any *four* questions : $4 \times 4 = 16$

7. Explain the evolution of Bengal Basin in a historical manner.
8. Elucidate the geomorphological features of Darjeeling Himalayan region.
9. Explain the major characteristics of Subarnarekha Delta region.
10. Why is 'Terai' vulnerable to flood?
11. Explain the management procedures of flood hazard in India.
12. Why is Himalayan region susceptible to various geomorphic hazards?

Group - C

Answer any *two* questions : $8 \times 2 = 16$

13. Describe with diagrams and maps the geomorphology of Indian Islands with reference to Andaman and Nicobar Islands.
14. Discuss the tectonic and structural formation of Darjeeling Himalaya.

(3)

15. Briefly describe the Geomorphological characteristics of Western Ghat with special reference to Deccan Trap.
16. Explain the mechanisms of evolution of the Ganga Delta.

Internal Assessment - 10 marks

P.T.O.

(4)

Paper : GEOE404B0

(Water Resource Management)

Group - A

Answer any *four* questions : $2 \times 4 = 8$

1. How do you define water scarcity?
2. Write the expression for water demand.
3. What is a single flow unit of water? State its use in assessing water sufficiency and water stress.
4. Why is CO_2 considered a primary GHG?
5. Stratify the thermal layers of a lake.
6. Which process plays the leading role in the redox condition for surface water?

Group - B

Answer any *four* questions : $4 \times 4 = 16$

7. Briefly state the factors affecting the surface water distribution.
8. Discuss the gendered footprint of climate change from the perspective of water accessibility.
9. Briefly discuss the Godavari water dispute among the South Indian states.
10. "Water used as a political and strategic resource" — write your opinion on this account.

(5)

11. Write, in brief, the interdisciplinary nature of water resource management.
12. How does climate change affect the water quality?

Group - C

Answer any *two* questions : $8 \times 2 = 16$

13. Discuss the application of space-based remote sensing in water resource management.
14. Write an account of the system approach in sustainable water resource management.
15. Describe Indus and Ganga Water Treaties between India, Pakistan and Bangladesh.
16. How does climate change put stress on critical water infrastructure in developing countries?

Internal Assessment - 10 marks
