

**PG CBCS**  
**M.Sc. Semester-I Examination, 2022**  
**GEOGRAPHY**  
 PAPER: GEO 103



(CLIMATE SCIENCE AND REGIONAL GEOMORPHOLOGY)

**Full Marks: 40**

**Time: 2 Hours**

**Write the answer for each unit in separate sheet**

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

GEO 103.1: CLIMATE SCIENCE

**Marks: 20**

**GROUP-A**

- 1. Answer any ONE question: 1×8=8**
- a) What are the environmental factors that need to be considered in climate modeling?
  - b) Explain the characteristics of summer monsoonal rainfall in India.

**GROUP-B**

- 2. Answer any TWO questions: 2×4=8**
- a) Define the different spatial scale for regional climate study.
  - b) Explain the role of aerosols in precipitation process?
  - c) Explain the role of Indian Ocean Dipole on the weather pattern of summer monsoon in India.
  - d) How do greenhouse gases contribute in global warming?

**GROUP-C**

- 3. Answer any TWO questions: 2×2=4**
- a) What is eye of the cyclone?
  - b) How does lightning occur?
  - c) Mention the significance of sea surface temperature on coastal weather.
  - d) What is index cycle?

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(2)

GEO 103.2: REGIONAL GEOMORPHOLOGY OF INDIA

**Marks: 20**

**GROUP-A**

**1. Answer any ONE question: 1×8=8**

- a) Give a geomorphological account on Darjeeling Himalayan region.
- b) Briefly discuss the pedo-geomorphic status of alluvial fans in the Terai Region.

**GROUP-B**

**2. Answer any TWO questions: 2×4=8**

- a) Write a short note on geophysical layout of Deccan Trap region in India.
- b) Explain the regional problems of Western Ghat region.
- c) Write the geomorphic characteristics of Chhotanagpur Plateau.
- d) Mention the geomorphological significance Subarnarekha Delta.

**GROUP-C**

**3. Answer any TWO questions: 2×2=4**

- a) Why is Chhotanagpur region called 'Mineral store house of India'?
- b) Mention the neotectonic signatures in Andaman Nicobar Islands.
- c) Mention the factors of bank erosion in Ganges Delta.
- d) Identify the agricultural prospects of Deccan Trap region.

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