2022

1st Semester Examination GEOGRAPHY

Paper: GEO 103

Full Marks: 40

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: 103.1

(Climatology)

Group - A

Answer any *two* of the following questions: $2 \times 2 = 4$

- 1. What is hydrostatic equilibrium?
- 2. How is the thermocline line related to upwelling?
- 3. What is global warming potential?
- 4. Why does burst of monsoon occur at early monsoon?

Group - B

Answer any *two* of the following questions: $4 \times 2 = 8$

5. Briefly describe the Elevated Heat Pump (EHP) theory of Indian summer monsoon.

P.T.O.

- 6. Explain the meteorological significance of geopotential.
- 7. How far Milankovitch cycle is responsible for the global climate change?
- Discuss the role of Indian Ocean Dipole (IOD) on the weather conditions of the surrounding areas of Indian ocean.

Group - C

Answer any *one* of the following questions: $8 \times 1 = 8$

- 9. Explain the mechanism of thunderstorm formation and its weather conditions.
- 10. Give an account of a simple climate model considering the impact of gas and aerosols.

Paper: 103.2

(Regional Geomorphology of India)

Group - A

Answer any *two* of the following questions: $2 \times 2 = 4$

- 1. What is an Intertrappean deposit?
- 2. Highlight the features of 'Active Part' of the Ganga delta.
- 3. Identify the major geomorphic features of Terai region.
- 4. Write a short note on the "Daling Series" of the Darjeeling Himalaya.

Group - B

Answer any *two* of the following questions: $4 \times 2 = 8$

- 5. Discuss briefly the nature of the Late Quaternary evolution of the lower Ganga delta.
- Explain the formation of the chenier beach ridges in Subarnarekha delta.
- 7. Identify the major geomorphic features of Western Ghats with reference to Deccan Trap.
- 8. Discuss the development and distribution of fluvial terraces in the foothills of Darjeeling Himalaya.

Group - C

Answer any *one* of the following questions: $8 \times 1 = 8$

- Discuss how the soil landform assemblages of the Chhotanagpur plateau and its adjacent areas of West Bengal are correlated with the local geomorphological diversities.
- 10. Differentiate the tectonically modified geomorpholo-gical features of the North Andaman from South Andaman group of islands with diagram and examples.