M.A./M.Sc. 1st Semester Examination, 2023

GEOGRAPHY

PAPER – GEO-103

Full Marks : 50

Time : 2 hours

Answer **all** questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

PAPER – GEO-103.1

(*Climatology*)

GROUP–A

Answer any **two** questions from the following : 2×2

1. What is global warming potential ?

2. What is IOD ?

3. What is geopotential height ?

4. What do you mean by climate normal ?

GROUP–B

Answer any **two** questions from the following : 4×2

5. How does the pressure-volume relationship help to understand the adiabatic process ?

6. Write a note on the role of aerosols in climate system.

7. How far oxygen isotope is useful for the reconstruction of past climate ?

8. Discuss the adaptation strategies for the climate change impact.

GROUP – C

Answer any **one** question : 8×1

9. Discuss the role of jet strēam on the dynamics of Indian monsoon.

10. What is atmospheric pressure ? Describe the fundamental law for which the pressure reduces with height.

PAPER – GEO-103.2

(*Regional Geomorphology of India*)

GROUP – A

Answer any **two** questions from the following : 2×2

1. Which area is known as the Terai Region ?

2. Identify the soil-landform characters of the lateritic upland tract.

3. What is the uniqueness of Ayodhya Hill in the Chhotanagpur Plateau ?

4. What is the 'Pat' region of the Chhotanagpur Plateau ?

GROUP–B

Answer any **two** questions from the following : 4×2

5. Write an account of the geomorphic uniqueness of the Subarnarekha delta.

6. Explain briefly about the tectonic-controlled geomorphology of the Andaman group of islands.

7. Discuss the major features of Darjeeling-Himalaya.

8. Give an account of the drainage features of the Chhotanagpur plateau.

GROUP – C

Answer any **one** questions from the following : 8×1

9. Describe the tectonics and geomorphology of Western Ghat, with special reference to the Deccan Trap.

10. Elucidate the nature of the geomorphic evolution of the Ganga delta in the Late Holocene epoch.

[Internal Assessment – 10 Marks]