

M.Sc. 1st Semester Examination, 2024

GEOGRAPHY

(Geotectonics)

PAPER—GEO-101

Full Marks : 25

Time : 1 hour

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

GROUP – A

Answer any two questions : 2×2

1. What are the sources of Earth's magnetic field ?
2. What is Curie temperature ?

(Turn Over)

3. What is magnetic inclination ?
4. Why the earth's core is composed of heavier elements ?

GROUP – B

Answer any **two** questions : 4×2

5. Briefly explain the role of the law of conservation of angular momentum in differential orbital velocity of planets around the sun.
6. A piece of ancient wood has 25% of its original carbon-14 remaining. Given that the half-life of carbon-14 is 5730 years, calculate the age of the sample.
7. Write a note on the imperiousness of post-depositional remanent magnetism over depositional remanent magnetism.
8. Briefly describe the evidence of neo-tectonic activity seen around the world.

GROUP – C

Answer any **one** question : 8×1

9. Describe the process of estimating the VGP. State VGP's implication in tectonic movement seen throughout the geological past.
10. Give an account of the types of magnetism observed in geologic material.

[**Internal Assessment – 5 Marks**]
