

**23I102**

(Pages: 2)

Name: .....

Reg.No: .....

**FIRST SEMESTER M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, NOV. 2023**

(CBCSS)

(Regular/Supplementary/Improvement)

**CC20 GEO1 IB01 / CC23I GLO1 IB01 - EARTH AND ENVIRONMENT**

(Geology)

(2020 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

**Part A** (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Size of the Earth.
2. Rates of Plate movements.
3. Shallow Mantle Convection.
4. Lustre.
5. Principle of superposition.
6. Stress.
7. Lahar and Jokulhlaups.
8. Tsunami hazards.
9. Classification of volcanos on the basis of lava flows.
10. Hot springs and Geysers.
11. Hypothesis on origin of mountains.
12. Tsunami.

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Nebular Hypothesis.
14. Geologic Time Scale and timeline of evolution of species.
15. Chemical bondings present in minerals.
16. Give an account of various types of rocks.

17. Description of a fold.
18. Explain Isostasy and describe Airy and Heiskanen's theory.
19. Seismographs and seismograms.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

Answer any *one* question. The question carries 10 marks.

20. Write an essay on absolute and relative methods for determining the age of the earth.
21. Explain in detail on elastic rebound theory and different types of seismic wave.

**(1 × 10 = 10 Marks)**

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