

24U132

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Name :

Reg. No :

FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2024

(FYUGP)

CC24U GEL1 MN100 - INTRODUCTION TO GEOLOGY

(B.Sc. Geology - Minor Course)

(2024 Admission - Regular)

Time: 2.0 Hours

Maximum: 70 Marks

Credit: 4

Part A (Short answer questions)

Answer *all* questions. Each question carries 3 marks.

1. Recall early atmosphere of Earth and the present atmosphere. [Level:1] [CO2, CO3]
2. Review the interaction between biosphere and atmosphere. [Level:2] [CO2, CO3]
3. Explain chronostratigraphy. [Level:2] [CO3, CO4]
4. Describe earthquake hazards. [Level:2] [CO5, CO6]
5. Discuss how plate tectonics can lead to the formation of new igneous rocks at mid-ocean ridges. [Level:2] [CO3, CO4]
6. Explain density stratification. [Level:2] [CO2, CO3]
7. List the main types of volcanoes, and how do they differ? [Level:1] [CO5, CO6]
8. Explain sea floor spreading. [Level:2] [CO3, CO4]
9. Define rock cycle. [Level:1] [CO1]
10. Review the interaction between hydrosphere and lithosphere. [Level:2] [CO2, CO3]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

Answer *all* questions. Each question carries 6 marks.

11. Discuss the types of plate boundaries and the geological features associated with each. [Level:2] [CO1]
12. Describe the contributions of Charles Lyell and William Smith to the development of geology. [Level:2] [CO1]
13. Define Shadow zones of seismic waves. [Level:1] [CO5]
14. Explain absolute dating and how it is used to determine the age of Earth. [Level:2] [CO1, CO4]

15. Explain Mantle. [Level:2] [CO1, CO2]
16. Categorize asthenosphere and barysphere. [Level:2] [CO1, CO2]
17. Explain absolute dating methods. [Level:2] [CO1, CO4]
18. Explain the challenges and limitations faced in geological scientific inquiry. [Level:2] [CO1]

(Ceiling: 36 Marks)

Part C (Essay questions)

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

19. Discuss the different types of earthquake mitigation strategies. How effective are they in reducing damage? [Level:2] [CO6]
20. Explain Geologic time scale. [Level:2] [CO3]

(1 × 10 = 10 Marks)
