

24U135

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Name :

Reg. No :

FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2024

(FYUGP)

CC24U GEL1 MN102 - PHYSICAL 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. List the three main types of plate boundaries. [Level:1] [CO1]
2. Interpret " Geosphere is differ from the other Earth spheres". [Level:2] [CO2, CO3]
3. Explain the role of the atmosphere in Earth's system. [Level:2] [CO2, CO3]
4. Describe earthquake hazards. [Level:2] [CO5, CO6]
5. Describe the chemical composition of different layers of the Earth. [Level:2] [CO2, CO3]
6. Explain magnetostratigraphy. [Level:2] [CO3, CO4]
7. Review the limitations of scientific inquiry in geology. [Level:2] [CO1]
8. List the main types of volcanoes, and how do they differ? [Level:1] [CO5, CO6]
9. Explain Moho discontinuity. [Level:2] [CO2, CO3]
10. Explain major era. [Level:2] [CO3, CO4]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

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

11. Describe stratovolcano, and how does it differ from other types? [Level:2] [CO5]
12. Define Shadow zones of seismic waves [Level:1] [CO5]
13. Categorize asthenosphere and barysphere [Level:2] [CO1, CO2]
14. Explain how the geologists use fossils to interpret Earth's history [Level:2] [CO1]
15. Discuss the formation of volcanic arcs at convergent plate boundaries. [Level:2] [CO1, CO3]

16. Describe the contributions of Charles Lyell and William Smith to the development of geology. [Level:2] [CO1]
17. Explain the processes that lead to the formation of sedimentary rocks [Level:2] [CO1, CO3]
18. Explain the volcanic eruption products of two different volcano types and their implications for surrounding ecosystems. [Level:2] [CO5]

(Ceiling: 36 Marks)

Part C (Essay questions)

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

19. Explain the geological evidence that supports to determine the Earth's age. [Level:2] [CO1, CO4]
20. Explain the concept of “liquefaction” in the context of earthquakes. How does it affect building structures? [Level:2] [CO5]

(1 × 10 = 10 Marks)
