

**25U179S**

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Name : .....

Reg. No : .....

**FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025**

(FYUGP)

**CC24UGEL1MN102 - PHYSICAL GEOLOGY**

(Geology - Minor Course)

(2024 Admission - Supplementary/Improvement)

Time: 2.0 Hours

Maximum: 70 Marks

Credit: 4

**Part A** (Short answer questions)

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

1. Describe geology. [Level:2] [CO1]
2. Explain asthenosphere. [Level:2] [CO2, CO3]
3. Explain Mass extinction. [Level:2] [CO2, CO3]
4. Explain the Subduction zone. [Level:2] [CO5, CO6]
5. Define Biosphere. [Level:1] [CO2, CO3]
6. Explain biostratigraphy. [Level:2] [CO3, CO4]
7. Recall how geologists formulate hypotheses. [Level:1] [CO1]
8. Describe the main parts of volcanoes. [Level:2] [CO5, CO6]
9. Identify different layers of Earth. [Level:2] [CO2, CO3]
10. Describe period. [Level:2] [CO3, CO4]

**(Ceiling: 24 Marks)**

**Part B** (Paragraph questions/Problem)

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

11. Explain the volcanic eruption products of two different volcano types and their implications for surrounding ecosystems. [Level:2] [CO5]
12. Describe the primary causes of earthquakes. [Level:2] [CO5]
13. Describe the process of sea-floor spreading and its significance in the theory of plate tectonics. [Level:2] [CO1]

14. Explain the role of James Hutton and his theory of uniformitarianism in the development of geology. [Level:2] [CO1]
15. Explain radioactive method for determining age of Earth. [Level:2] [CO1, CO4]
16. Explain Mantle. [Level:2] [CO1, CO2]
17. Categorize between island arcs and volcanic arcs. [Level:2] [CO1, CO3]
18. Explain the relationship between plate boundaries and earthquake occurrence. [Level:2] [CO5]
- (Ceiling: 36 Marks)**

**Part C (Essay questions)**

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

19. Discuss the rock cycle in depth, including all major processes and the transformations that occur between rock types. Diagrams can be utilized to illustrate your points effectively. [Level:2] [CO1, CO3]
20. Describe disaster preparedness plan for a community located in an earthquake-prone area. [Level:2] [CO6]

**(1 × 10 = 10 Marks)**

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