

24U131

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Name : .....

Reg. No : .....

**FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2024**

(FYUGP)

**CC24U GEL1 CJ101 - INTRODUCTION TO GEOLOGY**

(B.Sc. Geology - Major 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. Define Lithosphere. [Level:1] [CO2, CO3]
2. Explain Planetesimal Hypothesis. [Level:2] [CO2, CO3]
3. Discuss era and epoch. [Level:2] [CO3, CO4]
4. Describe the Lahars. [Level:2] [CO5, CO6]
5. Explain Uranium-lead method. [Level:2] [CO3, CO4]
6. Explain density stratification. [Level:2] [CO2, CO3]
7. List the Earthquake preparednes. [Level:1] [CO5, CO6]
8. Explain the characteristics of guyots and discuss how they form. [Level:2] [CO3, CO4]
9. Define stratigraphy. Quote William Smith's contribution to the development of geology. [Level:1] [CO1]
10. Review the interaction between biosphere and atmosphere. [Level:2] [CO2, CO3]

**(Ceiling: 24 Marks)**

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

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

11. Explain the major branches of geology and their importance. [Level:2] [CO1]
12. Categorize continental and oceanic crust. [Level:2] [CO1, CO2]
13. Explain how volcanic eruptions can impact climate. [Level:2] [CO5]
14. Discuss the significance of the rock cycle in Earth's geology. How do the processes of weathering, erosion, and deposition contribute to landscape formation? [Level:2] [CO1, CO3]

15. Categorize lithosphere and asthenosphere. [Level:2] [CO1, CO2]
16. Discuss the types of plate boundaries and the geological features associated with each. [Level:2] [CO1]
17. Explain relative dating methods. [Level:2] [CO1, CO4]
18. Describe the significance of interdisciplinary approaches in geological research. [Level:2] [CO1]

**(Ceiling: 36 Marks)**

**Part C (Essay questions)**

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

19. Discuss the differences between explosive and effusive eruptions in relation to volcano types. [Level:2] [CO5]
20. Discuss the different categories of stratigraphy and how they contribute to the formulation of the Geological Time Scale. [Level:2] [CO1, CO3]

**(1 × 10 = 10 Marks)**

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