

25U129

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Name :

Reg. No :

FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(FYUGP)

(Regular/Supplementary/Improvement)

CC24UGEL1CJ101 - INTRODUCTION TO GEOLOGY

(B.Sc. Geology - Major Course)

(2024 Admission onwards)

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. Identify different layers of Earth. [Level:2] [CO2, CO3]
3. Explain Rubidium Strontium method. [Level:2] [CO3, CO4]
4. Explain magma and lava. How are they related? [Level:2] [CO5, CO6]
5. Explain the subduction zones. [Level:2] [CO3, CO4]
6. Explain barysphere. [Level:2] [CO2, CO3]
7. Define Epicentre. [Level:1] [CO5, CO6]
8. Explain Sedimentation clock in the age determination of Earth. [Level:2] [CO3, CO4]
9. Define any two branches of geology. [Level:1] [CO1]
10. Explain Lower mantle. [Level:2] [CO2, CO3]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

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

11. Describe the contributions of Charles Lyell and William Smith to the development of geology. [Level:2] [CO1]
12. Describe the four main spheres of Earth and explain how they interact with one another. [Level:2] [CO2]
13. Discuss the impact of earthquakes on urban infrastructure. [Level:2] [CO6]

14. Explain the processes that lead to the formation of sedimentary rocks. [Level:2] [CO1, CO3]

15. Explain human activities impact the Earth System. [Level:2] [CO2]

16. Describe the process of sea-floor spreading and its significance in the theory of plate tectonics. [Level:2] [CO1]

17. Explain the application of biostratigraphy in constructing the Geological Time Scale. [Level:2] [CO1, CO2, CO3, 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. Explain the main types of volcanoes and their characteristics. [Level:2] [CO5]

20. Explain major eras in Geologic time scale. [Level:2] [CO3]

(1 × 10 = 10 Marks)
