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(Pages: 2)

Name:

Reg.No:

FIFTH SEMESTER M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS)

(Regular/Supplementary/Improvement)

CC20I GLO5I B07 - SEDIMENTARY PETROLOGY

(Geology)

(2020 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Mention sedimentary processes.
2. Factors influencing diagenesis of limestone.
3. Grain size analysis.
4. Udden-wentworth size scale.
5. Ball and pillow structures.
6. Mention fluvial transportation of sediments.
7. Palaeocurrent.
8. Recognition of ancient aeolian deposit.
9. Guano deposits.
10. Pyroclastic conglomerates.
11. Greywacke.
12. Packstone and wackestone.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Explain significance of weathering processes in the rock cycle?
14. Characteristics of various kinds of soil peds.
15. Explain texture of grains.
16. Explain cross bedding and current bedding and discuss significance.
17. Define laminar and turbulent flow. Discuss Reynold's number and Froude number.

18. Scheme of classification of siliciclastic sedimentary rocks.

19. Mode of formation of evaporitic rocks.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Discuss about the particle morphology.

21. Discuss in detail the dolomitization and the reason of debate on this topic.

(1 × 10 = 10 Marks)
