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(Pages: 1)

Name:

Reg. No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2022

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P GEL2 C08 - APPLIED PALEONTOLOGY AND SEDIMENTOLOGY

(Applied Geology)

(2019 Admission onwards)

Time: Three Hours

Maximum:30 Weightage

I. Short answer type questions. Answer any *four* questions.

1. Body fossils and trace fossils.
2. Spumellaria and Nassellaria.
3. Diatoms.
4. Heavy minerals.
5. Textural maturity.
6. GRADISTAT.
7. Diagenesis.

(4 × 2 = 8 Weightage)

II. Short essay questions. Answer any *four* questions.

8. Evolution history of Dinosaurs.
9. Morphology of Ostracods.
10. Morphology and geological distribution of Foraminifera.
11. Application of palynology in paleo-environmental reconstruction.
12. Procedure of sieving and pipette analysis.
13. Udden Wentworth and phi scale.
14. Sedimentary structures.

(4 × 3 = 12 Weightage)

III. Long essay. Answer any *two* questions.

15. Explain the procedures of collection, preparation and preservation of microfossils. Add a note on the stratigraphic significance of important microfossils in petroleum exploration.
16. Give an account of the evolution of vertebrate life through geologic time. Add a note on fossilisation.
17. Compare and contrast the lithification process of arenaceous and carbonate rocks. Add a note on the classification of arenaceous and carbonate rocks.
18. Discuss the fundamental principles of sedimentary basin analysis. Add a note on sedimentary facies.

(2 × 5 = 10 Weightage)
