

2024
M.Sc.
Second Semester
CORE – 05
GEOLOGY
Course Code: MGLC 2.11
(Palaeontology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Write a note on the origin of life and the mechanisms of evolution. 14
2. Write notes on the following: 7×2=14
 - (a) Concept of taphonomy
 - (b) Principles of palaeontology

UNIT-II

3. Write in detail the morphology, classification, and evolution of brachiopods? 14
4. Write notes on the following: 7×2=14
 - (a) Classification of cephalopods
 - (b) Evolutionary trends of Echinoidea

UNIT-III

5. Write in detail about the evolution of elephants. 14
6. Write notes on the following: 7×2=14
 - (a) Major mass extinction events in the Phanerozoic era
 - (b) Invertebrate fossil records of Siwalik

UNIT-IV

7. Discuss the classification, morphology, and biogeography of radiolarians. 14
8. Write notes on the following: $7 \times 2 = 14$
- (a) Sampling and sorting of microfossils
 - (b) Morphology and palaeoecological significance of conodonts

UNIT-V

9. Explain in brief the morphology, environmental application, and stratigraphic significance of dinoflagellates. 14
10. Discuss the morphology, classification, and application of spores. 14
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