

2024
B.A./B.Sc.
Fourth Semester
CORE – 10
GEOLOGY
Course Code: GLC 4.31
(Paleontology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Compare and contrast the lower and upper Gondwana flora. 14
2. Write notes on the following: 7×2=14
 - (a) Modes of preservation of fossils
 - (b) Morphology of plants with special emphasis on leaf

UNIT-II

3. What are ichnofossils? Give suitable examples. Explain how they are useful in the interpretation of depositional facies and palaeobathymetry. 2+2+10=14
4. Write notes on the following: 7×2=14
 - (a) Taxonomic hierarchy
 - (b) Lamarck's theory of inheritance of acquired characters

UNIT-III

5. Explain the morphology of gastropods with diagrams and give their geologic age range. 14
6. Write notes on the following: 7×2=14
 - (a) Significance of ammonites in Mesozoic biostratigraphy
 - (b) Dentition in bivalves

UNIT-IV

7. Discuss in detail the evolution of man. 14
8. Write notes on the following: 7×2=14
- (a) Extinction of dinosaurs
 - (b) Evolutionary trends of horses

UNIT-V

9. Explain the application of fossils in palaeoenvironmental analysis. 14
10. Write notes on the following: 7×2=14
- (a) Biozone
 - (b) Index fossils
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