

April 2025
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. Discuss the process and types of preservation of fossils. 14
2. Write a note each on the following: 7×2=14
 - (a) Importance of fossil record
 - (b) *Glossopteris* and *Ptilophyllum* flora

UNIT-II

3. Discuss the various theories of organic evolution interpreted from fossil record. 14
4. Write a note each on the following: 7×2=14
 - (a) Concept of species
 - (b) Classification of ichnofossils

UNIT-III

5. Explain with diagrams the morphology of bivalves. Add a note on their biostratigraphic significance. 14
6. Write a note each on the following: 7×2=14
 - (a) Coiling in gastropod shells
 - (b) Articulate and inarticulate brachiopods

UNIT-IV

7. Give an account on the evolution of horse and their intercontinental migrations. 14

8. Write a note each on the following: 7×2=14
(a) Origin and diversity of Mesozoic reptiles
(b) Trends in human evolution

UNIT-V

9. Discuss the application of fossils in stratigraphy. 14
10. Write a note each on the following: 7×2=14
(a) Fossils and paleoenvironmental analysis
(b) Application of palaeontology in palaeoecology
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