

2023
B.A./B.Sc.
Fourth Semester
CORE – 10
GEOLOGY
Course Code: GLC 4.31
(Palaeontology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Briefly explain the modes of preservation of fossils, the nature and importance of fossil record. 14
2. Write short notes on the following: 7×2=14
 - (a) Palaeobotany
 - (b) Gondwana flora

UNIT-II

3. What is species concept? Discuss the various types with examples. 14
4. Write notes on any two of the following: 7×2=14
 - (a) Speciation
 - (b) Types of ichnofacies
 - (c) Darwin's theory of natural selection

UNIT-III

5. Explain the morphology of the class brachiopod with diagrams. Give the geological age range. 13+1=14
6. Write notes on the following: 7×2=14
 - (a) Forms of gastropod shells
 - (b) Corona in Echinoidea

UNIT-IV

7. Discuss in detail the evolution of horse and intercontinental migration. 14
8. Write notes on the following: $7 \times 2 = 14$
- (a) Classification of dinosaurs
 - (b) Evolutionary changes in man

UNIT-V

9. Define biozone and explain the different types of biostratigraphic zone. $2 + 12 = 14$
10. Write notes on the following: $7 \times 2 = 14$
- (a) Application of fossils in stratigraphy
 - (b) Palaeontological criteria of correlation
-