



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 3rd Semester Examination, 2021

**CC7-GEOLOGY**

**PALAEONTOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

1. Answer any *five* questions from the following: 1×5 = 5
- (a) Index fossil
  - (b) Permineralised fossil
  - (c) Law of Faunal succession
  - (d) Acme zone
  - (e) Planktons and Nektons
  - (f) Delthyrium
  - (g) Pallial sinus
  - (h) Byssal notch.

**GROUP-B**

**Answer any *three* questions from the following** 5×3 = 15

2. What are Phenetic and Phylogenetic classification? With a help of a diagram describe Cladism. 2+3
3. How does distribution and diversity of marine organisms vary with latitude and depth?
4. What are Type specimens? Discuss their role in Taxonomy. 5
5. Describe briefly about the eyes of Trilobites and its importance in their life habit.
6. Comment on the ecology of Brachiopods. 5

**GROUP-C**

**Answer any *two* questions from the following**

10×2 = 20

7. Explain the use of fossils in Correlation and age determination of rocks. 10
8. Fossil record is imperfect — Analyse this statement. What are the different modes of fossilization? 5+5
9. Fossil bivalve morphology can reveal the nature of past substrate. Justify. 10
10. What are Trace fossils? What are the different types of trace fossils? How can fossil records help analyse continental drift theory? 2+4+4

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