



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 3rd Semester Examination, 2022

CC7-GEOLOGY

PALAEONTOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Write short notes on any **five** of the following: 1×5 = 5
 - (a) Permineralised fossil
 - (b) Gonatoparian
 - (c) Stenohaline
 - (d) Acme zone
 - (e) Pallial sinus
 - (f) Telson
 - (g) Lectotype
 - (h) Thanatocoenosis.

2. Answer any **three** questions from the following: 5×3 = 15
 - (a) Briefly describe CCCD and its significance in distribution of marine organisms.
 - (b) What are Index fossils and what is their importance? Give atleast three examples of Index fossils.
 - (c) What are Phenetic and Phylogenetic classification? With the help of a suitable diagram, describe Cladism.
 - (d) Describe the ecology of brachiopods.
 - (e) Define Trace fossils and their importance. Describe any two types of trace fossils.

3. Answer any **two** questions from the following: 10×2 = 20
 - (a) How are fossils used in Correlation and Age determination of rocks?
 - (b) What is Ecdysis? With the help of a suitable diagram describe the different stages of Ontogenetic development of a trilobite. Why is Ecdysis a major problem for palaeontologists?
 - (c) Fossil bivalve morphology can reveal the nature of past substrate. Justify.
 - (d) Describe the different conditions of preservation of fossils.

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