

EX/SC/GEOL/UG/CORE/TH/07/2025(OLD)

B. Sc. GEOLOGICAL SCIENCE EXAMINATION, 2025

(2nd Year, 1st Semester)

GEOLOGY

PAPER : CORE/TH/07

(Paleontology)

Time : Two Hours

Full Marks : 40

Use separate Answer-Scripts for each Part.

PART—I
(20 Marks)

1. Describe 'Gill arches theory' with schematic diagram. 10
[CO4]

(OR)

2. Discuss the origin of microphyll with the help of 'Telome theory' and 'Enation theory'. 10 [CO7]

(OR)

3. Classify Gondwana supergroup based on the plant fossils and describe the change of climatic condition during the deposition of the above supergroup. 10 [CO8]

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[Turn Over]

(2)

4. Short notes (*any two*) : 5×2=10
- (a) Crossopterygian fin [CO4]
(b) Progymnosperm [CO7]
(c) Cycadales [CO8]

PART—II
(20 Marks)

1. Describe the materials that make up the hard parts of fossils. 5 [C2]

(OR)

Give a short overview of Earth's past mass extinctions. 5
[C3]

2. Write briefly about the recognition of sexual dimorphism in ammonites. 5 [C4]

(OR)

Define iterative evolution. Explain with examples. [C5]

3. Discuss briefly the morphological characteristics and ecological habitats of Class Bivalvia or Class Brachipoda to Marine Mesozoic. 6 [C6]

4. Write short notes on (*any two*) of the following : 2×2=4
- (a) Different processes of fossil formation
(b) Ecdysis of trilobite
(c) Buoyancy of Nautilus [C1]

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