

[2]

Or

Describe the significance of vertebrate fossils in palaeontological studies.

2. Discuss the Triassic vegetation of India. 5

Or

Give a brief description of the molars of placental mammal. 5

3. Short notes (answer any *four*): 4×2.5

- i) Gomophotherium
- ii) Geochemical fossils
- iii) Origin of limb
- iv) Progressive trends of the evolution of elephant
- v) Sporoderm

Ex/SC/GEOL/PG/CORE/TH/08/2023

M. SC. APPLIED GEOLOGY EXAMINATION, 2023

(1st Year, 2nd Semester)

PALAEONTOLOGY

PAPER – CORE/TH/08

Time : Two hours

Full Marks : 40

(Use a separate Answer script for each Part.)

Part – I (20 Marks)

Answer any *three* questions. 3×5=15

1. Give a detailed account of the modern field and laboratory techniques in the study of microfossils.
2. Discuss the applications of ostracodes in geological studies.
3. What is taphonomy? Discuss in detail the modes of preservation of fossils.
4. Discuss the concept of biostratigraphy.
5. Write notes on any *one* : 5×1=5
 - a) Types of ‘Growth’.
 - b) Functional significance of sutures in Cephalopods

Part – II (20 Marks)

1. Explain the aperture of pollen grains with schematic diagrams. 5

[Turn over