

B. SC. GEOLOGICAL SCIENCE EXAMINATION, 2022

(2nd Year, 1st Semester)

PALAEONTOLOGY

PAPER – CORE/TH/07

Time : Two hours

Full Marks : 40

(Use a separate Answer script for each Part)

PART – I (20 Marks)

1. Discuss the origin of jaws with diagrams. 4

Or

Describe the formation of microphyll.

2. Explain the floral distribution of Gondwana deposits in India. 4

Or

Describe "Living fossil" with an example.

3. What are the differences between Cycadophyta and Coniferophyta? 4

Or

How did primitive land living vertebrates overcome the problem of locomotion?

4. Short notes on : 4x2=8

- (a) Neanderthal
- (b) Dinosaur fossils in India
- (c) Precambrian records of microorganisms
- (d) Amniotic egg

[Turn over

[2]

PART – II (20 Marks)

1. In the outline map of India (attached), show two regions each where you can get the fossilised form of: 6

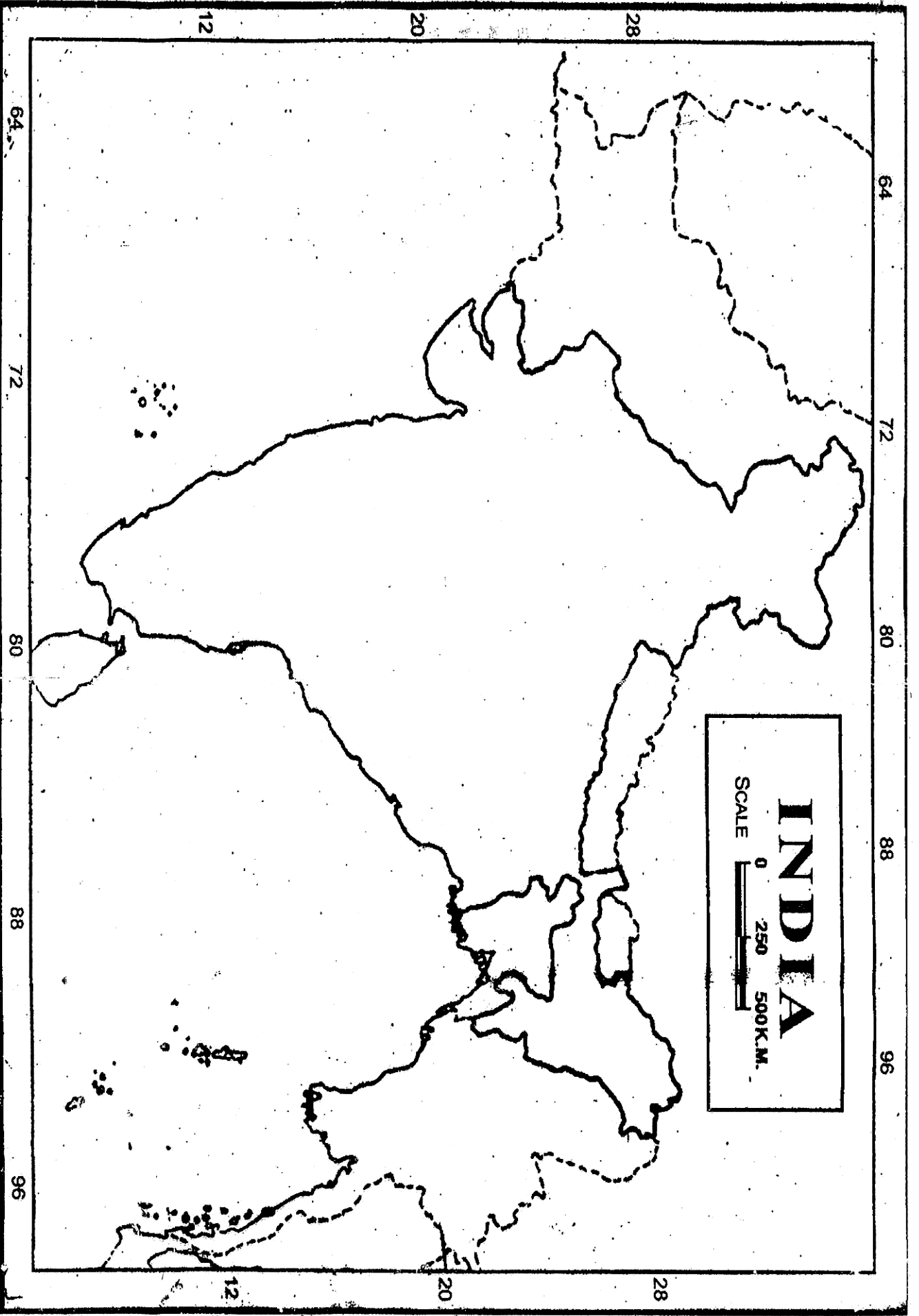
- a) Trilobites
- b) Ammonites
- c) Irregularia Echinoids

2. A bivalve has three cardinal teeth and three anterior and posterior laterals in each valve. Compare Bernard's and Steinmann's formula for the dentition of bivalves 4

3. How do you classify trace fossils? How do ichnofossils help us in paleoenvironmental reconstructions? (3+3)=6

4. Explain any one of the following 4

- a) Sexual dimorphism in cephalopods
- b) Life habitats of brachiopods



Q1.

EXAMINATION ROLL NO. _____

SC/GEOLOGY/CORE/TH/07/2023