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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat sketches wherever necessary.

1. Give evolutionary trends in Trilobites.

OR

Write short notes on:

- a) Types of Fossils based on size.
- b) Concept of species.
- c) Morphology of Bivalves.
- d) Morphology of Echinoids.

2. Give a detailed account of evolution of Home.

OR

Write short note on:

- a) Extinction of Dinosaurs.
- b) K - pg extinction.
- c) Origin of mammals
- d) Siwalik mammals.

3. Give on account of Gondwana flora.

OR

Write short note on:

- a) Classification of fossil plants.
- b) Pre - Gondwana flora.
- c) Application of paleobotany to assess paleoclimate
- d) Foraminifers.

4. Give a detailed account of microfossils in exploration of coal.

OR

Write short note on:

- a) Migration of organisms
- b) Application of fossil record to depositional environment
- c) Stable isotopes studies in paleoclimatology
- d) Molecular biology and its application .

5. Write in brief on:

- a) Taphonomy.
- b) Suture line in cephalopods.
- c) Indian Dinosaurs.
- d) Vertebrates during Paleozoic
- e) Dendrochronology.
- f) Fossils and spores.
- g) Dispersal of organisms
- h) Fossil record in sequence stratigraphy.
