

M.Sc. (Geology) (NEP Pattern) Semester-IV
PSCGEOE- 1 - Elective Paper-I : Palaeobiology

P. Pages : 2

Time : Three Hours



GUG/S/25/16351

Max. Marks : 80

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

1. What are Fossils? Discuss in detail modes of preservation of Fossils.

OR

Write short notes on:

- a) Index Fossils.
- b) Modern concept of origin of life.
- c) Speciation.
- d) Evolution

2. Give a brief account of Lamellibranchia with respect to morphological character and add a note on geological significance.

OR

Write short notes on:

- a) Morphological character of brachiopoda.
- b) Ichnofossils
- c) Geological significance of Gastropoda.
- d) Diagnostic morphological character of Belemnites.

3. Describe in brief morphological characters and geological significance of Foraminifera.

OR

Write short notes on:

- a) Micro paleontology in petroleum exploration.
- b) Morphological characters of calcareous algae.
- c) Define microfossils & types of microfossils based on composition.
- d) Geological significance of diatoms & palynomorphs.

4. Describe in brief morphological characters of geological significance of Trilobita.

OR

Write short notes on:

- a) Indian dinosaur.
- b) Gondwana Flora
- c) Geological significance of Echinoidea.
- d) Vertebrate life through ages

5. Write short notes:

- a) Extinction
- b) Megafossils
- c) Forms of Gastropod shells.
- d) Morphology of hard parts of Nautilus
- e) Geological significance of calcareous algae
- f) Morphology characters of diatoms and palynomorphs.
- g) Extinction of Dinosaurs
- h) Morphology characters of Echinoidea
