

M.Sc. (Geology) (NEP Pattern) Semester-II
PSCGEOT05 - Paper-II - Paleontology and Applied Paleobiology

P. Pages : 2

Time : Three Hours



GUG/S/25/15391

Max. Marks : 80

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

1. Discuss the various types of fossils in details. **16**

OR

Write short notes on

- a) Concept of species. **4**
- b) Evolutionary trends in Cephalopods. **4**
- c) Evolutionary trends in Trilobites. **4**
- d) Biostratigraphy. **4**

2. Discuss the Major extinction and origination through ages in details. **16**

OR

Write short notes on

- a) Indian dinosaurs. **4**
- b) Mammalian characters. **4**
- c) Evolutionary changes in Equidae. **4**
- d) Evolution of Homo. **4**

3. Discuss the evolutionary trend in angiosperms plants in details. **16**

OR

Write short notes on

- a) Gondwana flora. **4**
- b) Dendrochronology. **4**
- c) Approach to palaeobotany. **4**
- d) Paleogene flora. **4**

4. Discuss the applications of important mega and micro fossils in the exploration of coal and petroleum. 16

OR

Write short notes on

- a) Phylogenetic analysis. 4
 - b) Concept of evolution. 4
 - c) Concept of extinction. 4
 - d) Stable isotope studies in paleoclimatology. 4
5. Write short notes on following not more than 2-3 lines. 16
- a) Ichnofossils.
 - b) Specimens.
 - c) Vertebrates.
 - d) Name any Siwalik mammals.
 - e) Microfossils.
 - f) Paleoclimate.
 - g) Molecular biology.
 - h) Paleobiogeography
