

M.Sc. (Geology)(with Credits)-Regular-Semester 2012 Old / CBCS Sem II
0176 / PSCGEOT06 - Paper II-Palaeontology and Applied Paleobiology

P. Pages : 1

Time : Three Hours



GUG/S/18/5753

Max. Marks : 80

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

1. Give an account of morphological features of Gastropods and add a note on its geological distribution.

OR

Write short notes on.

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|----------------------|---------------------------------------|
| a) Types of fossils. | b) Evolutionary trends in trilobites. |
| c) Biostratigraphy. | d) Sutures in Ammonoidea. |

2. Give a detail account of origin and evolution of the mammals.

OR

Describe the following.

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|----------------------------------|-------------------------------------|
| a) Vertebrate life through ages. | b) Evolutionary changes in Equidae. |
| c) Siwalik mammals. | d) Evolution of Homo. |

3. Give an account of classification of plant fossils.

OR

Describe the following.

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| a) Upper Gondwana flora. |
| b) Application of Palaeobotany in assessing Palaeo- environment. |
| c) Evolutionary trends in angiosperm plants. |
| d) Palaeogene flora. |

4. Explain in detail the Palaeoecological and Palaeoclimatology significance of fossils.

OR

Describe the following.

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| a) Concept of evolution. |
| b) Application of Biochronology. |
| c) Stable isotope studies in Palaeoclimatology. |
| d) Applications of Microfossils in the exploration of coal and Petroleum. |

5. Write short notes on the following.

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|-----------------------------|----------------------------|
| a) Taphonomy. | b) Morphology of Bivalves. |
| c) Extinction of Dinosaurs. | d) Indian Dinosaurs. |
| e) Dendrochronology. | f) Micropalaeontology. |
| g) Evolutionary lineages. | h) Phylogenetic analysis. |
