1331

Varia	Dall No.		

B.Sc. (Hons.)/III

A

GEOLOGY - Paper XII(v)
(Applied Palaeontology)
(Admissions of 2004 and onwards)

Time: 3 hours

Maximum Marks: 45

(Write your Roll No. on the top immediately on receipt of this question paper.)

Answer any five questions.
All questions carry equal marks

- 1. Write one line answer to any five of the following
 - i. Give the Stratigraphic range of Pteropods.
 - ii. When did planktic foraminifera appear in the geological history?
- iii. Name the oldest fossil found on Earth
- iv. Name any ubiquitous fossil
- v. What is the Test composition of Ostracoda?
- vi. Name a Phosphatic microfossil
- vii. Where does the effect of Coriolis force become zero.
- viii. Name the fossil that marks the Pliocene/Pleistocene boundary
- ix. What is the approximate depth of ACD
- x. Name the plant fossil characteristic of upper Gondwana.
- 2. Tabulate the Geological time scale up to Period level and also provide the major biotic events that occurred during different time periods.
- 3. Discuss different types of microfossil and briefly mention their application in paleoclimatic and Paleoceanographic studies.
- 4. Write shot notes on any two of the following
 - i. Application of planktic foraminifera in hydrocarbon exploration.
 - ii. How do you infer the paleobathymetry of sea floor by the help of foraminifera
- iii. Application of Gondwana flora.
- 5. Write short notes on any two of the following
 - i. Biostratigraphic utility of trilobite
 - ii. Suture patterns in cephalopods
- iii. Carbonate compensation depth
- 6. Describe any two of the following
- i. Thermocline and Pycnocline
- ii. Ocean Surface circulation
- iii. Ekman spiral
- 7. How can fossils be used for studying past land sea distribution?
- 8. Describe briefly any two of the following
 - i. Demarcation of convergent plate boundaries with microfossils.
 - ii. Conodont color alteration index (CAI)
 - iii. Diatom bloom