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Your Roll No.

B.Sc. (Hons.) Geology / II Sem. A

Paper – GEHT-206 – PALAEOONTOLOGY

(Admissions of 2010 and onwards)

Time : 3 Hours

Maximum Marks : 75

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

Attempt any five questions.

All questions carry equal marks.

- 1.** What are the limiting factors in palaeoecology ? How can we use fossils in interpreting palaeoecology ?
- 2.** Discuss any **two** of the following :
 - (a)** Evolution of jaw in vertebrates.
 - (b)** Fossilization processes.
 - (c)** Allopatric and sympatric speciation.
- 3.** Write notes on any **two** of the following :
 - (a)** Compound eye in trilobites.

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- (b) Utility of fossils in palaeoclimatic reconstruction.
 - (c) Major steps in the evolution of plants.
4. Explain any **two** of the following :
- (a) Procedure for describing and naming of a new species.
 - (b) Biostratigraphic significance of Mesozoic ammonoids.
 - (c) Vertebrate fauna of Deccan volcanic province.
5. How do you classify trace fossils? How do ichnofossils help us in palaeoenvironmental reconstructions?
6. What are the major trends in the evolution of horses? Discuss the different stages of horse evolution and climatic changes associated with them.
7. Explain any **two** of the following :
- (a) Sexual dimorphism in cephalopods
 - (b) Life habitats of brachiopods
8. Describe the morphology of graptolites. What are the characteristic features of graptolites that make them index fossils for the lower Palaeozoic.