

This question paper contains 2 printed pages.]

Your Roll No. ....

1320

A

**B.Sc. (Hons.)/II  
GEOLOGY—Course V**

**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.)*

*Attempt any five questions.*

*All questions carry equal marks.*

1. Write notes on any *two* of the following :
  - (a) Species concept in Palaeontology
  - (b) Saurischian and ornithischian dinosaurs
  - (c) Punctuated Equilibrium and Phyletic Gradualism
2. Write an essay on important milestones during the evolution of vertebrates through time.
3. Write notes on any *two* of the following :
  - (a) Evolution of sutures in ammonites

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- (b) Mode of life in brachiopods
  - (c) Cenozoic diversification of mammals
4. Describe the morphology and geological history of trilobites with suitable diagrams.
5. Write notes on any *two* of the following :
- (a) Explain palaeogeographic significance of fossils with suitable examples
  - (b) Agnathous
  - (c) Biostratigraphic significance of graptolites
6. Discuss the progressive changes during the evolution of horses and the role of climate in shaping these changes.
7. Write notes on any *two* of the following :
- (a) Marine environments
  - (b) Effects of climate on the distribution of Gondwana flora
  - (c) Role of microfossils in palaeoceanographic studies
8. Write notes on any *two* of the following :
- (a) Modes of fossil preservation
  - (b) Gastropod shell forms with suitable illustrations
  - (c) Use of corals in geological studies.