

## M.Sc Sem.-2 Examination

P - 408

Geology

June 2022

Time : 2-00 Hours]

[Max. Marks : 50

**Attempt any three questions from section –I**

- Q - 1 Discuss Event stratigraphy and Pedostratigraphy. [14]
- Q - 2 (i) Describe sequence stratigraphy. [07]  
(ii) Explain principles of stratigraphic classification. [07]
- Q - 3 Give Classification, palaeogeography, lithology, orogeny and life forms of Tertiary and Cenozoic stratigraphy. [14]
- Q - 4 (i) Explain Stratigraphic divisions. [07]  
(ii) Write detailed notes on classification of Mesozoic formations of India. [07]
- Q - 5 Describe Role of micropalaeontology in hydrocarbon exploration. [14]
- Q - 6 (i) Explain Carbon-tetrachloride methods for microfossil separation. [07]  
(ii) Describe Conodonts element. [07]
- Q - 7 Taxonomic-stratigraphic-morphologic classifications of trace fossils and their uses for palaeoenvironmental investigations. [14]
- Q - 8 (i) Algal stromatolites. [07]  
(ii) Geological occurrence and significance of trace fossils for stratigraphy and tectonics. [07]
- Q - 9 **Answer any eight of the following short questions.** [08]  
(i) State two concepts of stratigraphy.  
(ii) What is the net rate of accumulation in marginal marine basins?  
(iii) Define magnetostratigraphy.  
(iv) What was palaeogeography of Jurassic of India?  
(v) What is fundamental unit of chronostratigraphy as per ICSN?  
(vi) Define temporal categories as per ICSN.  
(vii) Name three types of Conodonts.  
(viii) Give geological time range of Cyanophyta.  
(ix) Give names of orders of Ostracoda.  
(x) What is ichnology?  
(xi) Define algal travertine.  
(xii) Define endichnia.