

No. of Printed Pages : 2

Sl. No.

21APG1C4L

M.Sc. I Semester Degree Examination, April/May - 2023

APPLIED GEOLOGY

Stratigraphy and Palaeontology

(CBCS)

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with Question **No. 1 (Q1) Compulsory**, each question carries **equal** marks.

1. Answer the following : **14**
 - (a) Explain the different methods used for stratigraphic correlation and how they can be used to understand the relationship between rock layers in different locations ?
 - (b) Why is geological succession important to the study of Earth's history ?
2. Answer the following : **14**
 - (a) Describe the different layers of the Bouma sequence, and how are they formed ?
 - (b) Explain the importance of stratigraphy and how it contributes to our understanding of the Earth's history and the evolution of life on our planet.
3. Write a note on : **14**
 - (a) Dharwar system
 - (b) Deccan traps
4. Answer the following : **14**
 - (a) Discuss the different types of cephalopods, and how do they differ in terms of morphology and behaviour ?
 - (b) What are brachiopods ? Explain their distinguishing characteristics.
5. Answer the following : **14**
 - (a) How has the study of horse evolution contributed to our understanding of evolutionary processes more broadly ?
 - (b) Describe the significance of microfossils in the study of Earth history and evolution.

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- 6.** Answer the following : **14**
- (a) How do antogeny and phylogeny relate to one another, and how can the study of both concepts contribute to our understanding of evolutionary history ?
 - (b) How has the study of elephant evolution contributed to our understanding of evolutionary processes more broadly ?
- 7.** Add a note on : **14**
- (a) Principle of chilled margins and cross cutting relations
 - (b) Sargur super group
- 8.** Write a short note on : **14**
- (a) Geological time scale
 - (b) Aravali system of India
 - (c) Sandur Schist Belt

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