

B.Sc. Part-III (Honours) Examination, 2021

Subject: Geology

Paper: VII

(Palaeontology and Indian Stratigraphy)

Time: 2 hours

Full Marks: 50

*The figures in the margin indicate full marks
Candidates are required to give their answers in their
own words as far as practicable*

Group A: Palaeontology (FM: 25)

1. Answer any five of the following questions. 5x5=25

- a. Differentiate between body fossil and trace fossil.
- b. Write a short note on “Exoskeleton of trilobites”.
- c. Draw a neat, labelled diagram of a gastropod shell and describe its morphology.
- d. Describe the morphological features of the brachiopods. Name five important brachiopod fossils from Indian formation.
- e. Write a short note on Utility of fossils.
- f. Write a short note on Modes of preservation of fossils.
- g. Give an account of Morphology and adaptations of bivalves.

Group B: Indian Stratigraphy (FM: 25)

2. Answer any five of the following questions. 5x5=25

- a. Discuss the classification and age of the Gondwana Super Group of India and correlate them with similar formations of South Africa, Australia and South America.
- b. Write a short note on “Age of Deccan Traps.
- c. What are the criteria which can be used for correlation of the Archean rocks of Peninsular India?
- d. Delhi system of rocks are characterized by high grade of metamorphism than the older Aravallis. Discuss.
- e. Write a short note on Banded Gneissic Complex and its basement character.
- f. Write a short note on Older Metamorphic of Jharkhand.
- g. Give an account of animal life during the Siwalik times.