

19. Write a essay on the morphology of Trilobites with neat sketches. Add a note on their classification and stratigraphic significance.

20. Describe the following with neat diagrams:

(a) *Lepidodendron*

(b) *Ptilophyllum*

(c) *Calamites*.

S.No. 8452

16 SCCGL 4

(For candidates admitted from 2016–2017 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Part III — Geology – Major

PALAEONTOLOGY

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL the questions.

1. What are the trace fossils? Give few examples.
2. Define an Index fossil with an example.
3. Give a short note on dimorphism of Foraminifera.
4. Give a short note on the Delthyrium.
5. Write notes on the Dextral and sinistral coiling of Gastropoda.
6. Distinguish Regular and irregular Echinoids. Give one example.
7. Write a note on Cranidium.

8. Write notes on septal growth in Coelenterata.
9. Write notes on Devonian fishes.
10. Distinguish between *Glossopteris* and *Gangamopteris*.

PART B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

11. (a) Discuss the different uses of fossils in geological studies.

Or

- (b) Enumerate the life through various geological time periods.

12. (a) Explain in brief the morphology of sponges.

Or

- (b) Give an account on the morphology of Ostracoda with neat diagrams.

13. (a) Draw a neat sketch and explain the morphology of Echinodermata.

Or

- (b) Describe the morphological features of Brachiopods.

14. (a) Give an account on the morphology Pelecypods.

Or

- (b) Describe the general morphology of Cephalopods and add a note on their stratigraphic significance.

15. (a) Give an account on the Dinosaurs and their extinction.

Or

- (b) Outline the Siwalik mammals. Add a note on the climatic conditions prevailed during Siwalik period.

PART C — (3 × 10 = 30)

Answer any THREE questions.

16. Write an essay on the various modes of preservation of fossils with their favourable conditions for better fossilization.
17. Explain in detail the morphological features of Foraminifera with neat diagrams.
18. Describe in detail the morphological characteristics of Graptolites with a note on their geological importance.