

**E 2933**

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Reg. No.....

Name.....

**B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, APRIL 2022**

**Fifth Semester**

**Core Course—PALAEOLOGY**

(Common for B.Sc. Geology and B.Sc. Geology and Water Management)

[2013 to 2016 Admissions]

Time : Three Hours

Maximum Marks : 80

*Draw neat sketches wherever necessary.*

**Part A**

*Answer all questions.  
Each question carries 1 mark.*

Name the following :

1. A plant leaf fossil without a mid-rib.
2. Flowering plants began to appear from this period.
3. Index fossil of Upper Cambrian.
4. The stratigraphic range of Zaphrentis.
5. Crinoids were very abundant during this era.
6. A gastropod with both anterior and posterior canals.
7. Number of plates in the apical disc.
8. A Cephalopod with ammonitic suture line.
9. The outer skeletal part of a coral.
10. A Trilobite with genal spines.

(10 × 1 = 10)

**Part B (Short Answer Questions)**

*Answer any eight questions in not more than 100 words each.  
Each question carries 2 marks.*

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| 11. Belemnites.                  | 12. Petrification.                |
| 13. Articulata and Inarticulata. | 14. Moulds and Casts.             |
| 15. Productus.                   | 16. Index fossils.                |
| 17. Pygidium.                    | 18. Turritella.                   |
| 19. Gryphaea.                    | 20. Palial line and Palial sinus. |
| 21. Nautilus.                    | 22. Trace fossils.                |

(8 × 2 = 16)

**Turn over**

**Part C (Short Essays)**

*Answer any six questions in not more than 300 words each.  
Each question carries 4 marks.*

23. Give an account of Siwalik fauna.
24. General morphology of Echinoids with neat diagram of the dorsal side.
25. Conditions favourable for fossilization.
26. Different forms of gasteropod shell.
27. Basic principles of taxonomy and binomial nomenclature of species.
28. Types, age and distribution of Gondwana plant fossils.
29. General morphology and evolutionary history of Corals.
30. Mass extinction during Permian.
31. General morphology and stratigraphic importance of Trilobites.

(6 × 4 = 24)

**Part D (Essay Questions)**

*Answer any two questions in not more than 1000 words each.  
Each question carries 15 marks.*

32. Give a detailed account of the uses of fossils in Geology.
33. Describe the general morphology, classification, description of important genera, their ages and geological history of Graptolites.
34. Give an account of the general morphology, description of important genera, their ages and geological history of Lamellibranchs.
35. Give an account of the general morphology, description of important genera, their ages and geological history of Foraminifera.

(2 × 15 = 30)