



**2023/TDC (CBCS)/EVEN/SEM/  
GELDSC/GE-401T/078**

**TDC (CBCS) Even Semester Exam., 2023**

**GEOLOGY**

**( 4th Semester )**

**Course No. : GELDSC/GE-401T**

**( Stratigraphy and Palaeontology )**

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

**SECTION—A**

Answer any *fifteen* of the following questions :

1×15=15

1. Define lithostratigraphy.
2. What is biostratigraphy?
3. Cenozoic era starts with which period?
4. Which part of India is called extra-peninsular India?



( 2 )

5. What is the oldest stratigraphic unit of Dharwar craton?
6. What is the topmost stratigraphic unit of Mesozoic of Rajasthan?
7. Which craton is associated with Cuddapah?
8. What is the characteristic fauna of Mesozoic of Kutch?
9. Which flora marks Upper Gondwana deposit?
10. Which plume is associated with Deccan volcanism?
11. Which is the bottommost formation of Palaeogene succession of Assam basin?
12. Name any one formation from Assam basin which can be seen in and around Silchar.
13. What is fossil?
14. What is holotype species?
15. What is microfossil?
16. What is ichnofossil?

J23/593

( Continued )

( 3 )

17. What is suture line in Cephalopoda?
18. Define pallial sinus.
19. Write a note on the ocular plate of echinoderm.
20. What is the age of *Glossopteris* flora?

SECTION—B

Write short notes on any five of the following :  
2×5=10

21. Law of Superposition
22. Chronostratigraphy
23. Rewa group of Vindhyan basin
24. Patcham formation of Jurassic of Kutch
25. Talchir boulder bed of Gondwana supergroup
26. Therria formations of Assam basin
27. Body fossil
28. Indirect fossil preservation

J23/593

( Turn Over )



( ( 4 ) )

29. Different muscle scar of Brachiopoda.
30. Eye of Trilobite.

SECTION—C

Answer any five of the following questions : 5×5=25

31. Write a descriptive note on different lithostratigraphic units.
32. Write a comparative note between lithostratigraphy and chronostratigraphy.
33. Write the stratigraphic succession of Delhi supergroup. Describe any stratigraphic unit from Delhi supergroup.
34. Write a descriptive note on 'Cretaceous of Tiruchirapalli'.
35. Write a descriptive note on Deccan trap.
36. Write the stratigraphic succession of Neogene of Assam basin. Describe any one stratigraphic unit from the above.
37. Write a descriptive note on conditions of fossil preservation.

( 5 )

38. Write a descriptive note on the significance of fossil on palaeoenvironmental interpretation.
39. Draw a labelled diagram of bivalve and describe its morphological features.
40. Write a descriptive note on distribution and significance of Gondwana flora.

\*\*\*