



**2022/TDC (CBCS)/EVEN/SEM/  
GELDSC/GEC-401T/249**

**TDC (CBCS) Even Semester Exam., 2022**

**GEOLOGY**

**(4th Semester)**

Course No. : GELDSC/GEC-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 as directed :

1×15=15

1. Define stratigraphy.
2. How many eons are there in the Geological Time Scale?
3. Name the periods of Palaeozoic Era.



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4. Which principles of stratigraphy states 'present is the key to the past'?
5. Name the groups of Lower Vindhyaans.
6. Name the formations of Kaimur Group.
7. Write the subdivisions of Patcham Formation.
8. Name the characteristic fossil of Umia plant beds.
9. Lower Gondwana Group is characterized by \_\_\_\_\_ flora.  
( Fill in the blank )
10. \_\_\_\_\_ Formation is the major storehouse of coal having more than 90% of total resource of India.  
( Fill in the blank )
11. The peninsular India is composed primarily of \_\_\_\_\_ rocks.  
( Fill in the blank )
12. The age of Deccan Volcanism is \_\_\_\_\_ years.  
( Fill in the blank )

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( Continued )

( 3 )

13. Define palaeontology.
14. Define Ichnofossils.
15. Define index fossils.
16. Define topotype species.
17. Name the two classes of brachiopods.
18. Define orthoceratite suture lines.
19. What is the chronological significance of Ammonoidea?
20. Name the phylum of Lamellibranchia.

SECTION—B

Answer any *five* of the following questions : 2×5=10

21. Write a short note on principle of uniformitarianism.
22. Write a short note on superposition.
23. Write the stratigraphic succession of Delhi Supergroup.
24. Name the stratigraphic units of Dharwar province.

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( Turn Over )



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25. Write the chief rock types of Gondwana Supergroup.
26. Write a short account on the economic significance of Gondwana.
27. Write a short note on binomial nomenclature in taxonomy.
28. Write a short note on principles of faunal succession.
29. Illustrate the types of brachial skeleton.
30. Write a short note on *Glossopteris* flora.

SECTION—C

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

31. Define lithostratigraphic units and write on its various kinds.
32. Discuss briefly on the physiographic divisions of India.
33. Write the classification of Cuddapah Supergroup, giving short account of each formation.

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( Continued )

( 5 )

34. Write a detailed account on lithology and fossil content of Triassic of Spiti Valley.
35. Describe the stratigraphic succession of Neogene and Palaeogene rocks of Assam.
36. Describe the geological succession of Gondwana sequence of Damodar Valley.
37. Discuss briefly the modes of preservation of fossils.
38. Discuss briefly the chronological and stratigraphical significance of fossils.
39. Draw a labelled diagram of Gastropoda and describe the morphological features.
40. Discuss briefly the evolutionary history of horse.

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