



**2023/TDC(CBCS)/EVEN/SEM/  
GELSEC-401T/079**

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

**GEOLOGY**

**( 4th Semester )**

Course No. : GELSEC-401T

**( Environmental Geology )**

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. Name the most abundant mineral group.
2. What is the smallest particle of matter?
3. What is the mean distance of earth from the sun?
4. What is the 'atmosphere system'?



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5. Write the full form of DALR.
6. Define troposphere.
7. Write a short note on Environmental Lapse Rate (ELR).
8. Write briefly on organic material.
9. Outline what is meant by the term 'electromagnetic spectrum'.
10. Define Stefan-Boltzmann law.
11. Write a short note on acid rain.
12. What is ozone hole?
13. Define focus and epicentre of an earthquake.
14. What are P- and S-waves?
15. Define craters.
16. What is rock slide?

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( Continued )

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17. What is nuclear energy?
18. Define watershed.
19. What is wetland?
20. Write the types of land use in urban area.

SECTION—B

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

21. How are minerals different from rocks?
22. Write briefly on the chemical composition of the earth.
23. Outline the term 'unstable atmosphere'.
24. Write the effects of air pollution.
25. Write a short note on solar energy cascade.
26. Write briefly on greenhouse effect.
27. Write a short note on flash flood.
28. 'Deforestation as a cause of drought'— Explain.

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( Turn Over )



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29. Write the disadvantages of nuclear energy.
30. Write a short note on hydrogen ion concentration (pH).

SECTION—C

Write explanatory notes on any *five* of the following : 5×5=25

31. Classification of rocks, giving at least two examples of each class
32. Importance of water for the biosphere
33. Soil contamination due to urbanization
34. Structure of the earth's atmosphere
35. Total energy flux to the earth
36. Global polar environments
37. Mechanisms and causes of volcanism
38. Preventive measures for landslide
39. Efforts being made to use non-conventional sources of energy in our country
40. Advantages and disadvantages of natural gas over other forms of fossil fuels

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