

**2023/TDC(CBCS)/ODD/SEM/
GELSEC-301T/129**

TDC (CBCS) Odd Semester Exam., 2023

GEOLOGY

(3rd Semester)

Course No. : GELSEC-301T

(Geomorphology and Geotectonics)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

SECTION—A

**Answer fifteen questions, selecting any three from
each Unit : 1×15=15**

UNIT—I

- 1. Define geomorphology.**
- 2. Define endogenetic geomorphic process.**
- 3. Define extraterrestrial process.**
- 4. Define mass wasting/gravity transfer.**

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(Turn Over)

(2)

UNIT—II

5. Write a note on abrasion.
6. Write a note on deflation.
7. Write a note on volcanism.
8. Write a note on diastrophism.

UNIT—III

9. Write a note on geotectonics.
10. Write a note on plate boundaries.
11. Write a note on crust.
12. Write a note on polar wandering.

UNIT—IV

13. Write a note on continental platform.
14. Write a note on deep sea trench.
15. Write a note on Magnetic reversal.
16. Write a note on orogenic belt.

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(Continued)

(3)

UNIT—V

17. Write a note on shield.
18. Write a note on pangea.
19. Write a note on epeirogeny.
20. Write a note on neotectonics.

SECTION—B

Answer *five* questions, selecting *one* from each

Unit : 2×5=10

UNIT—I

21. Write a brief note on degradation and aggradation.
22. Write a brief note on weathering.

UNIT—II

23. Write a brief note on dunes.
24. Write a brief note on delta.

UNIT—III

25. Write a brief note on palaeontologic evidences of Continental Drift Theory.
26. Write a brief note on palaeomagnetism.

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UNIT—IV

27. Write a note on plate movement.

28. Write a note on orogeny.

UNIT—V

29. Write a brief note on tectonic division of India (name only).

30. Write a brief note on convergent plate margin.

SECTION—C

Answer five questions, selecting one from each

Unit : $5 \times 5 = 25$

UNIT—I

31. Define geomorphic cycle. Explain the role of structure and process in geomorphology.

$1+2+2=5$

32. Write notes on the following : $2\frac{1}{2}+2\frac{1}{2}=5$

(a) Uniformitarianism

(b) Tools in geomorphologic mapping

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(Continued)

(5)

UNIT—II

33. Describe with suitable sketches the geological work of river.

34. Write on the following : $2\frac{1}{2}+2\frac{1}{2}=5$

(a) Glacial depositional landform

(b) Erosion by glacier

UNIT—III

35. Write on mid-oceanic ridge.

36. Write on mechanism of seafloor spreading.

UNIT—IV

37. Discuss the convergent plate movement and the associated features.

38. Write short notes on the following : $2\frac{1}{2}+2\frac{1}{2}=5$

(a) Island arcs

(b) Plate tectonic theory

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(6)

UNIT—V

39. Describe the tectonic elements of North-East India.

40. Name the important orogenic belts of the world. Discuss briefly on Himalayan orogeny:

2+3=5

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