



**2021/TDC/CBCS/ODD/
GELSEC-301T/129**

**TDC (CBCS) Odd Semester Exam., 2021
held in March, 2022**

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

Write brief notes on any *fifteen* from the following :

1×15=15

1. Weathering
2. Present is key to the past
3. Frost wedging
4. Erosion



(2)

5. Hanging wall
6. Diastrophism
7. Exogenetic process
8. Natural levee
9. Abrasion and Attrition
10. Convergent plate boundary
11. Craton
12. Tectonic plate
13. Indus-Tsangpo suture zone
14. Peninsular India
15. Magnetic reversal
16. Oceanic lithosphere
17. Mobile belt
18. Scale of maps
19. Topographic maps
20. Geotectonics

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(Continued)

(3)

SECTION—B

Write notes on any five from the following : $2 \times 5 = 10$

21. Geomorphological cycle
22. Processes of wind erosion
23. Extraterrestrial process
24. Dunes
25. Orogenic belt
26. Seafloor spreading
27. Volcanic arc
28. Convergent and divergent plate boundary
29. Neotectonics
30. Shillong plateau

SECTION—C

Answer any five from the following questions :
 $5 \times 5 = 25$

31. Landforms are the product of structure, process and stage. Explain.
32. Write a descriptive note on biological weathering.

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(Turn Over)



(4)

- 33.** Describe the processes of erosion and transportation by river.
- 34.** Define geomorphic process. Write about the various geomorphic processes that modify the earth's surfacial form.
- 35.** Define mid-oceanic ridge. Describe the origin and consequences of mid-oceanic ridge. $1+4=5$
- 36.** Write the concept of continental drift theory. Mention the important evidences in favour of continental drift theory. $2+3=5$
- 37.** Discuss the role of plate tectonics in the development of orogeny.
- 38.** Write short notes on the following : $2\frac{1}{2}\times 2=5$
- (a) Plate margins
 - (b) Deep sea trenches
- 39.** Describe the tectonic framework of N-E India.
- 40.** Write short notes on the following : $2\frac{1}{2}\times 2=5$
- (a) Island arcs
 - (b) Importance of neotectonics in Cenozoic
