



2022/TDC/ODD/SEM/GELSEC-301T/129

(2)

TDC (CBCS) Odd Semester Exam., 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

UNIT—I

1. Write notes on any *three* of the following : 1×3=3
 - (a) Frost wedging
 - (b) Peneplain
 - (c) Weathering and erosion
 - (d) Anthropogenic process
2. Write a brief note on any *one* of the following : 2
 - (a) Geomorphic process
 - (b) Dunes

J23/155

(Turn Over)

3. Answer any *one* of the following questions : 5
 - (a) Define geomorphology. Explain any two basic principles of geomorphology in short. 1+2+2=5
 - (b) Write notes on the following : 2½+2½=5
 - (i) Geomorphological cycle
 - (ii) Chemical weathering

UNIT—II

4. Write notes on any *three* of the following : 1×3=3
 - (a) Exogenic processes
 - (b) Glacier
 - (c) Underground water
 - (d) Diastrophism
5. Write a brief note on any *one* of the following : 2
 - (a) Extra-terrestrial processes
 - (b) Erosion by River
6. Answer any *one* of the following questions : 5
 - (a) Describe with suitable sketches the geological work of wind.
 - (b) Write notes on the following : 2½+2½=5
 - (i) Gravity transfer
 - (ii) Transportation by glacier

J23/155

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(3)

UNIT—III

7. Write notes on any *three* of the following : 1×3=3
- (a) Polar wandering curve
 - (b) Plate motion associated with mid-oceanic ridge
 - (c) Lithosphere
 - (d) Orogeny
8. Write a brief note on any *one* of the following : 2
- (a) Continental Drift theory
 - (b) Applications of Paleomagnetism
9. Answer any *one* of the following questions : 5
- (a) "Earth is a dynamic system." Discuss.
 - (b) Describe the salient features of seafloor spreading.

UNIT—IV

10. Answer/Write notes on any *three* of the following : 1×3=3
- (a) Syntaxial bend
 - (b) Foredeep basin
 - (c) Write names of mobile belts of N-E India.
 - (d) Write name of precambrian orogenic belt of the world.

J23/155

(Turn Over)

(4)

11. Write a brief note on any *one* of the following : 2
- (a) Island arc and volcanic arc—differences
 - (b) Convergent plate boundaries
12. Answer any *one* of the following questions : 5
- (a) Describe the importance of Plate Tectonic concept in explaining various geological processes.
 - (b) Write short notes on the following : 2½+2½=5
 - (i) Types of plate boundaries
 - (ii) Major plates of the world

UNIT—V

13. Write notes on any *three* of the following : 1×3=3
- (a) Neotomism
 - (b) Mariana trench
 - (c) Volcanic arcs
 - (d) Pangaea and Panthalassa
14. Write a brief note on any *one* of the following : 2
- (a) Tectonic lineament
 - (b) Siwalik Himalaya

J23/155

(Continued)



(5)

15. Answer any *one* of the following questions : 5

- (a) Describe the tectonic elements of peninsular India.
- (b) Discuss the various evidences in support of neotectonism giving Indian examples.

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