



2019/TDC/ODD/SEM/GELSEC-301T/216

TDC (CBCS) Odd Semester Exam., 2019

GEOLOGY

(3rd Semester)

Course No. : GELSEC-301T

(Geomorphology and Geotectonics)

(For Pass Students)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

UNIT—I

1. Write brief notes on any *three* of the following : 1×3=3

- (a) Exfoliation
- (b) Frost freezing
- (c) Erosion by gravity
- (d) Weathering by organism

(2)



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(3)

2. Write a short note on any one of the following : 2

- (a) Geomorphic maps
- (b) Contouring

3. State and explain any two important geomorphic principles. 5

OR

4. What is geomorphological cycle? Discuss Davisian model of geomorphological cycle. 5

UNIT—II

5. Write brief notes on any three of the following : 1×3=3

- (a) Diastrophism
- (b) Pyroclastic material
- (c) Exogenic processes
- (d) Water table

6. Write a short note on any one of the following : 2

- (a) Volcanic belts of the world
- (b) Extra-terrestrial processes

7. Describe the geological work done by wind. 5

OR

8. Describe the geological work done by glacier. 5

UNIT—III

9. Write brief notes on any three of the following : 1×3=3

- (a) Gondwana land
- (b) Ridge axis
- (c) Magnetic polarity
- (d) Tethys sea

10. Write a short note on any one of the following : 2

- (a) Earth as a dynamic system
- (b) Application of palaeomagnetism

11. What is continental drift hypothesis? Mention four important evidences in favour of continental drift. 1+4=5

OR

12. Discuss the essential features of sea-floor spreading. 5

(4)



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(5)

UNIT—IV

13. Write brief notes on any three of the following : $1 \times 3 = 3$
- (a) Plate margins
 - (b) Transform fault
 - (c) Subduction zone
 - (d) Asthenosphere

14. Write a short note on any one of the following : 2
- (a) Orogeny
 - (b) Deep sea trenches

15. Discuss the essential features of plate tectonic theory. 5

OR

16. Describe island arc and volcanic arc. 5

UNIT—V

17. Write brief notes on any three of the following : $1 \times 3 = 3$

- (a) Peninsular India
- (b) Extra-peninsular India

(c) Siwalik Himalaya

(d) Syntaxial bent

18. Write a short note on any one of the following : 2

(a) Alpine-Himalayan orogeny

(b) Arakan orogeny

19. Discuss the tectonic framework of North-East India. 5

OR

20. Define neotectonism. Enumerate the geomorphological evidences of Neotectonism. $1+4=5$
