TDC (CBCS) Even Semester Exam., 2019

GEOLOGY

(2nd Semester)

Course No. : GELHCC–202T

(Structural Geology)

Full Marks : 50
Pass Marks : 20

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. Answer any *two* questions from the following : 2×2=4

(a) What is angular unconformity? Draw a neat diagram. 1+1=2

(b) What is dip? Explain what diagram. 2

(c) Enumerate any two linear structures. 2

2. *(a)* Describe the effect of topography on structural features with proper explanation. 6

Or

(b) Write a descriptive note on the outcrop pattern of fold and fault. 6

UNIT—II

3. Answer any *two* questions from the following : 2×2=4

(a) When will prolate strain ellipsoid be formed?

(b) Define strain.

(c) What is deformation?

4. *(a)* Define stress. Write the Hook's law with explanation. 2+4=6

Or

(b) Write a description on the stereographic projection. 6

UNIT—III

5. Answer any *two* of the following questions : 2×2=4

(a) Define antiform fold with neat diagram.

(b) Define plunging fold.

(c) Define syneline fold.

6. *(a)* Describe the 'buckling' method of folding. 6

Or

(b) Illustrate the geometric classification of fold. 6

UNIT—IV

7. Answer any *two* of the following questions : 2×2=4

(a) Define mineral lineation with explanation.

(b) What is cleavage?

(c) What is schistosity?

8. *(a)* Write a descriptive note on the geologic significance of axial planar cleavage. 6

Or

(b) Describe the origin of lineation. 6

UNIT—V

9. Answer any *two* of the following questions : 2×2=4

(a) Define hanging wall.

(b) What is fault breccia?

(c) What is fracture?

10. *(a)* Write an explanatory note on the genetic classification of fractures. 6

Or

(b) Enumerate different geologic criteria to identify fault in the field. 6

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