2022
B.A./B.Sc.
Second Semester
CORE – 4
GEOLOGY
Course Code: GLC 2.21
(Structural Geology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer <u>five</u> questions, taking <u>one</u> from each unit.

UNIT–I

1. Explain the Rule of Vs with the help of diagram. 14

2. Write notes on *any two* of the following: 7×2=14
   (a) Representation of altitudes
   (b) Contour lines and slope
   (c) Structural map

UNIT–II

3. Write an account on the concept of rock deformation. 14

4. Write notes on the following: 7×2=14
   (a) Planar and linear structure
   (b) Outcrop patterns of different structure

UNIT–III

5. Explain the geometric classification of fold with neat diagrams. 14

6. Write notes on *any two* of the following: 7×2=14
   (a) Elements of fold
   (b) Buckling and flow folding
   (c) Genetic classification of fold

UNIT–IV

7. Explain the different structures related to lineation with diagrams.   14

8. Write notes on the following: 7×2=14
   (a) Foliation and its origin
   (b) Axial plane cleavage and its tectonic significance on foliations

UNIT–V

9. Explain unconformity, its formation, and types of diagrams.   14

10. Write notes on the following: 7×2=14
    (a) Genetic classification of joints
    (b) Genetic classification of faults

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