2023
B.A./B.Sc.
Second Semester
CORE – 4
GEOLOGY
Course Code: GLC 2.21
(Structural Geology)

Total Mark: 70   *Pass Mark: 28*
Time: 3 hours

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

UNIT–I

1. Define topography. Give a brief description of topographic map and explain with diagram on representation of altitudes.   1+5+8=14

2. Write notes on the following: 7×2=14
   (a) Any two rules of 'V' with diagram
   (b) Contour lines and slope

UNIT–II

3. Explain stress and strain in rocks and their geological significance.

    7+7=14

4. Write notes on the following: 7×2=14
   (a) Dip and strike
   (b) Planer and linear structures

UNIT–III

5. What is a fold? Explain with diagram fold morphology.   2+12=14

6. Write notes on the following: 7×2=14
   (a) Bending and flexural slip folding
   (b) Any two basis of geometric classification of fold

UNIT–IV

7. Give an account on axial plane cleavage and its tectonic significance on foliation. 14

8. Write notes on the following: 7×2=14
   (a) Lineation and its origin
   (b) Relation of lineation with foliation and folds

UNIT–V

9. Explain the geometrical classification of faults with diagrams. 14

10. Write notes on the following: 7×2=14
    (a) Structures on fault surfaces
    (b) Geometric classification of joints

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