

**2024**  
**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 five questions, taking one from each unit.*

**UNIT-I**

1. Explain rules of V with diagram. 14
2. Write notes on the following: 7×2=14
  - (a) Representative factors of the map
  - (b) Representation of altitudes by contours

**UNIT-II**

3. Explain with diagrams the outcrop patterns of different structures. 14
4. Write notes on the following: 7×2=14
  - (a) Planar and linear structure
  - (b) Stages of deformation

**UNIT-III**

5. Explain the geometric classification of fold with diagram. 14
6. Write notes on the following: 7×2=14
  - (a) Elements of fold
  - (b) Buckling and flow folding

## UNIT-IV

7. Write an account on the origin of foliations. 14
8. Write notes on the following: 7×2=14
- (a) Tectonic significance of axial plane cleavage
  - (b) Relation of lineation with major structures

## UNIT-V

9. Explain in detail the formation and types of unconformities with diagram. 14
10. Write notes on the following: 7×2=14
- (a) Genetic classification of joints
  - (b) Criteria for recognition of fault
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