

Bachelor of Science (B.Sc.) Semester–IV Examination
GEOLOGY (STRUCTURAL GEOLOGY)

Optional Paper–II

Time : Three Hours]

[Maximum Marks : 50

- N.B. :—** (1) **ALL** questions are compulsory and carry equal marks.
 (2) Draw neat sketches wherever necessary.

1. Define rock deformation. Describe various types of rock deformations.

OR

Draw a well labelled diagram of compass clinometer and describe its parts, and add a note on its use in the field.

2. What is unconformity ? Discuss various types of unconformities with neat sketches.

OR

Describe following erosional structures in detail with neat sketches :

- (A) Inlier and outlier
- (B) Klippe and Fenster

3. Define fold. Give a brief account of any five types of folds with neat sketches.

OR

Give a brief account of genetic classification of joints.

4. Define fault. Describe any six types of faults in detail with neat diagrams.

OR

Discuss Lineations and Foliations in detail.

5. Write on the following in not more than two sentences (Attempt any **ten**) :

- (a) Outcrop
- (b) Apparent dip
- (c) Stress
- (d) Offlap
- (e) Onlap
- (f) Diapirs
- (g) Plunge of a fold
- (h) Axis of a fold
- (i) Dip joints
- (j) Heave of a fault
- (k) Shear zones
- (l) Throw of the fault.