

**NRT/KS/19/2116**

**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. (a) What is rock deformation ? Describe various types of rock deformation.

**OR**

(b) Draw a neat sketch of compass clinometer and add a note on its use in the field.

2. (a) Describe with neat sketches Outliers and Inliers.

**OR**

(b) Describe with neat sketches any four types of unconformities.

3. (a) Describe with neat sketches anticlines, synclines and recumbent folds.

**OR**

(b) Give an account of genetic classification of joints.

4. (a) Give an account of foliations and lineations.

**OR**

(b) What are faults ? Describe geometric classification of faults.

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

- (a) Outcrop
- (b) True dip
- (c) Strike of a bed
- (d) Off lap
- (e) On lap
- (f) Diapirs
- (g) Plunge of a fold
- (h) Symmetrical folds
- (i) Isoclinal folds
- (j) Hade of a fault
- (k) Fault breccia
- (l) Ductile shear zone.