

NKT/KS/17/5149

**Bachelor of Science (B.Sc.) Semester—IV (C.B.S.) Examination**  
**GEOLOGY (Structural Geology)**  
**Paper—II**

Time : Three Hours]

[Maximum Marks : 50

**N.B.** :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Draw neat diagrams wherever necessary.

1. What are dip and strike ? Describe construction of an instrument used in measurement of dip and strike. How is this instrument used in measuring dip and strike ?

**OR**

What is rock deformation ? Describe various kinds of rock deformation with stress strain diagram.

2. Describe different erosional structures with neat labelled diagrams.

**OR**

Define Unconformity. Describe various types of unconformities.

3. What are folds ? Describe geometric classification of folds.

**OR**

Define joints. Describe genetic classification of joints.

4. Describe the following

- (A) Foliation  
(B) Lineation.

**OR**

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

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

- (a) Outcrop  
(b) Bedding  
(c) Plunge  
(d) Overlap  
(e) Diapir  
(f) Topography  
(g) Axial plane of fold  
(h) Overtaken fold  
(i) Columnar joint  
(j) Slickenside  
(k) Shear zone  
(l) Thrust.