

**Fourth Semester B. Sc. Examination**

**GEOLOGY**

**Paper – II**

**(Structural Geology)**

Time : Three Hours ]

[ Max. Marks : 50

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

1. Draw a neat sketch of compass clinometer and describe its parts. Add a note on its use in the field.

**OR**

What is rock deformation ? Describe various kinds of rock deformation.

2. What are unconformities ? Describe various types with neat sketches.

**OR**

Write notes on the following :—

(A) Offlap  
(B) Onlap  
(C) Salt dome  
(D) Inlier.

3. What are folds ? Describe various types of folds with neat sketches.

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Contd.

**OR**

What are joints ? Describe the geometric and genetic classification of joints.

4. Write notes on the following :—  
(A) Effects of fault on outcrops.  
(B) Normal fault and thrust fault.

**OR**

Write notes on the following :—

(C) Foliation, and  
(D) Lineation.

5. Write on the following in not more than **two** sentences (Attempt any **ten**) :—  
(A) True dip,  
(B) Strike,  
(C) Plunge,  
(D) Klippe,  
(E) Fenster,  
(F) Anticlinal Valley,  
(G) Axis of fold,  
(H) Axis plane,  
(I) Plunge of fold,  
(J) Ductile shear zone,  
(K) Throw of fault,  
(L) Transcurrent fault.

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