

NTK/KW/15 – 5864

**Fourth Semester B. Sc. (Part-II)
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. Describe the following :—

- (A) Compass clinometer,
- (B) Dip and strike.

OR

Describe the following :—

- (C) Rock deformation,
- (D) Scope of structural geology.

2. Describe the following :—

- (A) Klippe and Fenster,
- (B) Synclinal Hill and Anticlinal valley.

OR

Describe the following :—

- (C) Angular unconformity,

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Contd.

(D) Disconformity and non conformity.

3. (A) Describe various types of folds with neat sketches.

OR

(B) What are joints ? Describe geometric and genetic classification of joints.

4. Describe the following :—

(A) Normal fault and Thrust fault.

(B) Recognition of faults.

OR

Describe the following :—

(C) Types of lineation,

(D) Ductile and shear zones.

5. Write on the following in not more than two sentences
(Any Ten) :—

(a) Elastic constant.

(b) True north.

(c) Rake.

(d) Salt dome.

- (e) Inlier.
- (f) Offlap.
- (g) Axis of fold.
- (h) Plunge of fold.
- (i) Hinge of fold.
- (j) Rock cleavage.
- (k) Throw of fault.
- (l) Heave of fault.