BACHELOR OF SCIENCE (B.Sc.) SIXTH SEMESTER

B.Sc. 4524 - GEOLOGY : Paper-I (Structural Geology)

P. Pages : 1 **GUG/W/18/1349**

Time : Three Hours * 1 0 6 2 * Max. Marks : 50

Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat sketches wherever necessary.

1. What is rock deformation? Describe various types of rock deformation.

OR

Define an Unconformity. Describe its various types.

2. What are folds? Describe any five types of folds with neat sketches.

OR

Give a detailed account of geometric classification of faults.

3. Describe the following :-

a) True dip and apparent dip. b) Overlap

c) Nappe d) Thrust fault

OR

Write short notes on :-

e) Rake and plunge f) Diapir

g) Columnar joints h) Horst and Graben

4. Write short notes on the following :-

a) Compass clinometer, b) Inlier,

c) Sheet structure d) Foliation and lineation

OR

Write notes on :-

e) Scope of structural Geology, f) Outlier,

g) Master joints, h) Ductile shear zone.

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

a) Magnetic declination, b) Outcrop, c) Strike,

d) Synclinal hill, e) Anticlinal valley, f) Klippe,

g) Axis of fold, h) Plunge of fold, i) Dip joints,

j) Throw of fault, k) Heave of fault, l) Tear fault

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