

B.Sc. Sem-VI  
**B.Sc. 4524 - Geology Paper-I (Structural Geology)**

P. Pages : 2

Time : Three Hours



**GUG/S/19/1349**

Max. Marks : 50

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

1. Describe in brief scope and aim of structural geology.

**OR**

What is an outcrop ? Describe in detail its relationship with topography.

2. What are joints ? Describe the various kinds of joints with considering the geometric classification.

**OR**

What are faults ? Describe the effects of faulting on outcrops with neat diagrams.

3. Write brief notes on the following :

- a) True dip and Apparent dip
- b) Disconformity.
- c) Recumbent fold
- d) Lineations

**OR**

Write brief notes on the following :

- e) Stress and strain
- f) Non conformity
- g) Isoclinal fold
- h) Normal faults

4. Describe the following :

- a) Plastic deformation
- b) Angular unconformity

- c) Plunging folds
- d) Shear zones

**OR**

Describe the following :

- e) Elastic deformation
- f) Overlap
- g) Columnar joints
- h) Horst and Graben

**5.** Write on the following is not more than two sentences solve **any ten**.

- |                    |                          |
|--------------------|--------------------------|
| a) Strike of a bed | b) Bedding               |
| c) Rake            | d) Regional unconformity |
| e) Diapirs         | f) Synclinal hill        |
| g) Anticline       | h) Syncline              |
| i) Tension joints  | j) Fault plane           |
| j) Fault plane     | k) Foliations            |
| l) Dip fault       |                          |

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