

**P.G. Dip. in Watershed Technology & Mgt. Semester—I Examination**  
**P-II : ADVANCED REMOTE SENSING IN GEO-SCIENCES AND GIS**

Time : Three Hours]

[Maximum Marks : 50

**Note** :— (1) All questions are compulsory and carry equal marks.  
(2) Draw neat sketches wherever necessary.

1. Write in brief on the following :—

- (a) Photogrammetry.
- (b) Landform characteristics.

**OR**

- (c) Erosion behaviour of rocks.
- (d) Land use and association.

2. Write in brief on the following :—

- (a) Indian remote sensing satellite.
- (b) Satellite image interpretation.

**OR**

- (c) Physics of remote sensing.
- (d) Remote sensing techniques in geosciences.

3. Write in brief on the following :—

- (a) Terrain evaluation.
- (b) Geomorphologic mapping.

**OR**

- (c) Interpretation of rock types.
- (d) Photo-interpretation of structural elements.

4. Explain in detail about the remote sensing applications in interpreting ground water potentials.

**OR**

Explain in detail about the land use and land cover mapping using remote sensing.

5. Explain the principles and components of GIS.

**OR**

Write in detail about the application of GIS in watershed studies.