

**B.Sc.3523 - Geology Paper-II (Elements of Remote Sensing and Geomorphology)**

P. Pages : 2

Time : Three Hours.



**GUG/S/18/3368**

Max. Marks : 50

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

1. What is Remote Sensing? Describe its scope and aim in Geology. **10**

**OR**

Describe the various photo-interpretation guidelines used for lithological and geomorphological interpretation.

2. “The same physical processes and laws that operate today operated throughout geologic time, although not necessarily always with the same intensity as now” Discuss with examples. **10**

**OR**

What is applied geomorphology? Describe its scope in various fields.

3. Describe the following:- **10**

- Vertical photographs and high oblique photographs.
- Photographic tone.
- Mass-wasting.
- Caverns.

**OR**

Write short notes on the following:-

- Drift and crab.
  - Recognition of lineament and joints.
  - Monocyclic landforms and multicyclic landforms.
  - Stalactites and stalagmites.
4. Give a brief account of the following. **10**
- Electromagnetic spectrum

- b) Photo-interpretation by pattern
- c) Rectangular pattern
- d) Moraines

**OR**

Write short notes on:-

- e) Principle point and nadir point
- f) Vertical exaggeration
- g) Exhumed landforms
- h) Anticlinal valley and synclinal hill

**5.** Write on each of the following in not more than two sentences **any ten.**

**10**

- a) Terrestrial photographs
- b) FCC
- c) Fiducial marks.
- d) Photogrammetry.
- e) Shape as a recognition element.
- f) Cris-cross texture.
- g) Paleogeomorphology
- h) Debris falls
- i) Simple land form.
- j) Polje
- k) Karst bridges
- l) Longitudinal dunes.

\*\*\*\*\*