

Bachelor of Science (B.Sc.) Fifth Semester
**B.Sc. 3523 - Geology Paper – II (Elements of Remote Sensing and
Geomorphology)**

P. Pages : 2

Time : Three Hours



GUG/W/18/1312

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 various types of aerial photographs.

OR

Describe the various photo interpretation guidelines used for lithological interpretation of aerial photograph.

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

OR

Describe the topography developed over folded region.

3. Write short notes on the following :

- a) Pocket Stereoscope.
- b) Texture in aerial photographs.
- c) Exhumed land forms.
- d) Sink holes.

OR

Write notes on the following :

- e) Mirror stereoscope.
- f) Tone in aerial photograph.
- g) Trellis drainage pattern.
- h) Nappe

4. Describe the following.

- a) Satellite imagery

- b) Recognition of folds in aerial photographs.
- c) Radial drainage pattern.
- d) Application of geomorphology in economic geology.

OR

Describe the following :

- e) Mosaics
- f) Recognition of faults in aerial photographs.
- g) Dendritic drainage pattern.
- h) Stalactites and Stalagmites.

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

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|------------------------------------|-----------------------------------|
| a) Drift | b) Fiducial marks. |
| c) Over lap | d) Photogrammetry |
| e) Shape as a recognition element. | f) Lineaments |
| g) Nick point | h) Hogback |
| i) Mesa | j) Polje |
| k) Fault line Scarp | l) Resequent rift block mountain. |
