

M.Sc.(Geology) CBCS Pattern Semester-III  
**PSCGEOT10 - Paper-II - Geomorphology, Remote Sensing and GIS**

P. Pages : 2

Time : Three Hours



**GUG/W/23/11271**

Max. Marks : 80

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

1. Give detailed account of geomorphic features and zones of India.

**OR**

Write short notes on:

- Geomorphic concepts.
- Rejuvenation of landforms.
- Soil formation.
- Fluvial processes and associated landforms.

2. Describe interpretation of different geological features on B/W photographs.

**OR**

Write short notes on:

- Fundamentals of EMR.
- Black body radiation.
- Interaction of Microwave with Earth surface.
- Sequence involved in aerial photography.

3. Give detailed account of TIR remote sensing and its application.

**OR**

Write short notes on:

- Sun-Synchronous satellites.
- Image rectification.
- IRS series and their applications.
- LANDSAT.

4. Describe principles and components of GIS.

**OR**

Write short notes on:

- a) Geospatial data.
- b) Vector overlay analysis.
- c) Buffer analysis.
- d) Principle and applications of GPS.

5. Write short notes on:

- a) Peneplanation.
- b) Karst topography.
- c) Principles of photogrammetry.
- d) Scale of aerial photo.
- e) SKYLAB.
- f) ICONOS.
- g) DEM
- h) Line generation.

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