

M.Sc.(Geology) (C.B.C.S. Pattern) Sem-III (New Course)  
**PSCGEOT10 - Paper-II : Geomorphology Remote Sensing and GIS**

P. Pages : 2

Time : Three Hours



**GUG/S/19/11271**

Max. Marks : 80

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

1. Discuss in detail the geomorphic features and zones of India.

**OR**

Write notes on –

- a) Morphometry.
- b) Weathering products.
- c) Tectonic factors.
- d) Peneplanation.

2. Discuss in detail the principles of photogrammetry.

**OR**

Write notes on –

- a) Stereoscopy.
- b) Interaction of microwave with Earth surface.
- c) Aerial photography.
- d) EMR.

3. Describe the details of orbit and sun-synchronous aspect of satellite.

**OR**

Write notes on.

- a) SPOT.
- b) SEASAT.
- c) Space research in India.
- d) Digital image processing.

4. Give a detailed account of GIS and remote sensing software's.

**OR**

Write notes on –

- a) Geological application of GIS.
- b) Principles of GPS.
- c) Buffer analysis.
- d) DEM.

5. Write short notes on-

- a) Aeolian landforms.
- b) Exogenous forces.
- c) B/W aerial photographs.
- d) Microwave radiation.
- e) LANDSAT.
- f) Platforms and sensors.
- g) Applications of GPS.
- h) Overlay analysis.

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