

M.Sc.(Geology) (NEP Pattern) - Semester-III  
**PSCGEOT08 - Geomorphology, Remote Sensing and GIS**

P. Pages : 2

Time : Three Hours



**GUG/W/24/16003**

Max. Marks : 80

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

**1. Describe the fluvial landforms in details. 16**

**OR**

Write short notes on:

- a) Weathering 4
- b) Slope processes 4
- c) Endogenic processes 4
- d) Geomorphic concepts 4

**2. Discuss the various recognition elements of remote sensing in details. 16**

**OR**

Write short notes on:

- e) Radiation Law 4
- f) Principles of photogrammetry 4
- g) Aerial photo interpretation 4
- h) Interaction of TIR wavelength with vegetation 4

**3. Discuss the Geological applications of remote sensing in details. 16**

**OR**

Write short notes on:

- a) Classification of image. 4
- b) Remote Sensing Sensor. 4
- c) Principle of microwave remote sensing. 4
- d) Space research in India. 4

**4.** Discuss the various geological applications of GIS in details. **16**

**OR**

Write short notes on:

e) Geospatial data **4**

f) Buffer analysis **4**

g) Raster spatial analysis **4**

h) Application of GPS **4**

**5.** Write short notes on: **16**

a) Peneplanation

b) Rejuvenation of landforms

c) EMR

d) Vertical exaggeration

e) Bhaskara

f) SPOT

g) DEM

h) Vector

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