

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

P. Pages : 2

Time : Three Hours



GUG/S/25/16003

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 various denudational processes in details. **16**

OR

Write Short notes on

- a) Aeolian landforms. **4**
- b) Glacial landforms. **4**
- c) Drainage basin morphometry. **4**
- d) Geomorphic features. **4**

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

OR

Write short notes on

- a) Black and grey body radiation. **4**
- b) Principles of photogrammetry. **4**
- c) Aerial photo interpretation. **4**
- d) Fundamental of EMR. **4**

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

OR

Write Short notes on

- a) Rectification and enhancement of image. **4**
- b) Orbit aspect of satellite. **4**
- c) Principle of microwave remote sensing. **4**
- d) IRS series **4**

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

OR

Write Short notes on

- a) GIS and remote sensing software. 4
- b) Buffer analysis. 4
- c) Raster spatial analysis. 4
- d) Principal of GPS. 4

5. Write short notes on **16**

- a) Peneplanation.
- b) Rejuvenation of landforms.
- c) TIR wavelength.
- d) Microwave
- e) FCC
- f) SEASAT
- g) DEM
- h) Vector
