

AE-838

M.Sc. (Final)
Term End Examination, 2016-17

GEOLOGY

Paper - IV

Advance Remote Sensing in Geology

Time : Three Hours] [*Maximum Marks* : 100

[*Minimum Pass Marks* : 36

Note : Answer **all** questions. All questions carry equal marks.

Unit-I

1. What is Aerial Photograph ? Comment in detail on terrain elements like tone, texture, pattern, shape etc.

OR

Write short notes on the following :

- (a) Stereoscopy
- (b) Photogrammetry

(2)

Unit-II

2. Describe in detail about importance of remote sensing techniques in Geoscience.

OR

Comment in brief on the following :

- (a) Satellite imagery
- (b) Electromagnetic energy
- (c) Indian Remote Sensing Satellites
- (d) Signature of the natural objects

Unit-III

3. Comment in detail on identification of structural elements on aerial photographs.

OR

Explain the following :

- (a) Photo interpretation of tectonic features
- (b) Rock types identification on aerial photographs

Unit-IV

4. Throw light in detail on application of Remote Sensing Techniques in site selection of Dam.

OR

(3)

Write notes on the following :

- (a) Terrain mapping
- (b) Application of remote sensing in study of soils.

Unit-V

5. What is GIS ? Comment in detail on importance of Geographical Information System.

OR

Explain the following :

- (a) Land use — Land cover mapping
 - (b) Digital Elevation Model (DEM)
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