

Roll No. Total No. of Printed Pages : 4

Code No. : B04-106

Fourth Semester Online Examination, May-June, 2022

M. Sc. GEOLOGY

Paper I

[Photogeology and Remote Sensing]

Time : Three Hours] [Maximum Marks : 80

Note : ● Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences.

● Part C (Short answer type) and D (Long answer type) of each question should be answered within the word limit 200-250 and 400-450.

Unit-I

1. (A) Define stereoscopy. 2
- (B) What is the colour of vegetation/forest in satellite imagery ? 2
- (C) Describe in brief types of aerial photograph. 4

Or

Explain in brief about photo interpretation of structural features.

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(D) Describe in detail element of photogrammetry. 12

Or

Explain in detail various elements of photo interpretations.

Unit-II

2. (A) Define thermal remote sensing. 2
- (B) What do you mean by electromagnetic energy ? 2
- (C) Describe in brief type of sensors. 4

Or

Explain in brief geometric corrections.

(D) Explain in detail Indian Remote Sensing Satellites mission. 12

Or

Describe in detail about visual interpretation of satellite images.

Unit-III

3. (A) What do you mean by signature of the natural objects ? 2

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- (B) Define soil creep. 2
(C) Explain in brief forest types. 4

Or

How igneous rocks are interpreted on aerial photograph ?

- (D) Described in detail about application of Remote sensing in the site selection of tunnels. 12

Or

Explain in detail about soil mapping and land use-land cover mapping.

Unit-IV

4. (A) Name any two hardware used in GIS. 2
(B) What do you understand GPS station ? 2
(C) Describe in brief input and output devices used in GIS. 4

Or

What do you mean by data base desing and structure ?

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- (D) Explain in detail components soft ware and equipments used in Geographic information system. 12

Or

Describe in detail with diagrams and example principle and applications of Global positioning system (GPS).

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