No. of Printed Pages : 5 **MGG–012**

M. SC. GEOGRAPHY

(MSCGG)

Term-End Examination

June, 2026

MGG-012 : INTRODUCTION TO REMOTE SENSING

Time : 3 Hours *Maximum Marks : 100*

Note : *Question Nos.* ***1*** *and* ***2*** *are compulsory. Attempt any* ***five*** *out of seven questions from question nos. 3 to 9. Marks are indicated against each question.*

Section—A

1. Write short notes on any *five* in about **150** words each : 5×4=20

   (i) Panchromatic system

(ii) Spectral properties of rocks and minerals

(iii) LiDAR Remote sensing

(iv) Earth observation satellites

(v) Interpretation of day and night time thermal image

(vi) Multi-use concept of image interpretation

(vii) Image thresholding and image segmentation

Section—B

2. Attempt any *five* questions. Your answers should be in about **250** words each : 5×6=30

(i) What is absorption ? Discuss *four* factors on which absorption depends.

(ii) What is the visual interpretation aids ? Describe any *four* types of visual interpretation aids by citing examples.

(iii) Discuss in detail key feature of Chandrayaan I.

(iv) Define marginal information written on satellite image. Explain any *four* important features pertaining to marginal information.

(v) Discuss *two* techniques of data acquisition used in hyper spectral remote sensing.

(vi) Briefly explain any *six* elements of visual image interpretation.

(vii) Briefly discuss the applications of remote sensing in disaster management.

Section—C

***Note** : Attempt any **five** question. Your answer should be in about **500** words each.*

5×10=50

3. What is thermal laws of radiation ? Explain in detail any *two* types of thermal laws of radiation.
4. What is remote sensing platform ? Describe in detail spaceborne platforms.
5. Write a detailed account on the history of aerial photography.
6. Write in detail about the international sources of remotely sensed data.

7. Discuss in detail the key applications of thermal imaging by citing suitable examples.
8. Give a detailed overview on definition of visual image interpretation.
9. Write in detail about the applications of remote sensing in the studies of landslides.

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