B.Sc. Semester-III Examination, 2022-23
ENVIRONMENTAL SCIENCE [Honours]

Course ID : 31815   Course Code : SH/ENV/305/SEC-1

Course Title : Remote Sensing , Geographical Information System and Modelling.

Time : 1 Hour 15 Minutes   Full Marks : 25

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any **five** from the following questions:

$1\times5=5$

a) What does MSS stand for?

b) What is Microwave remote sensing?

c) Define IFOV.

d) What is meant by standard FCC?

e) What does DBMS stand for?

f) Define standard error.

g) What is meant by 'judgement sampling'?

h) What is attribute table?

2. Answer any **two** from the following questions:

$5\times2=10$

a) What is FCC? Explain in brief the different visual image interpretation keys.   1+4

b) Write short notes on the followings (any **two**):

$2\frac{1}{2}\times2$

    i) Spatial and Non-spatial Data

    ii) Standard Error of Estimate

    iii) LANDSAT

c) Explain different types of resolutions of sensors used in remote sensing.   5

d) Briefly explain different applications of Absolute Residual Mapping in environmental studies.   5

3. Answer any **one** from the followings: $10\times1=10$

a) Briefly explain different applications of remote sensing in the study of forest resources and land use planning.   10

b) What is Dispersion? Explain its various types and suitable applications in environmental science.   2+8

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