BANKURA UNIVERSITY
B.Sc. Semester-III Examination, 2022-23
ENVIRONMENTAL SCIENCE [Programme]

Course ID : 31810   Course Code : SP/ENV/304/SEC-1

Course Title : Remote Sensing, Geographic Information System & 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** of the following questions:

   1×5=5

   a) What is EMR?

   b) What is radiometric resolution?

   c) What do you mean by spectral signature?   .

   d) Define passive sensor.

   e) What do you mean by vector overlay?

   f) Write any two advantages of mode.

   g) Define snowball sampling.

   h) What do you mean by Standard Deviation?

   i) What is Sun synchronous satellite?

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

   5×2=10

   a) Describe the key components of GIS.

   b) Distinguish between spatial data and non-spatial data.

   c) Which sensors are useful for land use and land cover studies?

   d) Distinguish between random and systematic sampling.

3. Answer any **one** from the following questions:

   10×1=10

   a) What are the advantages and limitations of visual image interpretation and digital image processing?   5+5

   b) Explain the use of Remote Sensing and GIS techniques in forestry applications.

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