



‘समानो मन्त्रः समितिः समानी’

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 6th Semester Examination, 2023

CC14-GEOLOGY

REMOTE SENSING AND GIS

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Answer any **five** questions from the following: 1×5 = 5
 - (a) What is the wavelength range of red colour?
 - (b) Can we do remote sensing all throughout the electromagnetic spectrum?
 - (c) What is black body?
 - (d) Give an example of use of remote sensing in agriculture.
 - (e) To get GPS information, data from how many satellites are required at least?
 - (f) Name the two fields of electromagnetic radiation.
 - (g) Express the relation between wavelength and frequency using an equation.
 - (h) What is the average surface temperature of earth?

2. Answer any **three** questions from the following: 5×3 = 15
 - (a) Describe different types of satellite according to their uses.
 - (b) Name and briefly describe the different platforms used in remote sensing.
 - (c) Write in short, the components of GIS.
 - (d) What are the uses of aerial photography?
 - (e) Describe two limitations of remote sensing technique.

3. Answer any **two** questions from the following: 10×2 = 20
 - (a) Name and describe all types of resolution important for any remote sensing analysis.
 - (b) Describe the elements of remote sensing.
 - (c) Describe a typical remote sensing process.
 - (d) Write about the advantages of remote sensing technique.

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