उत्तर बङ्ग

विश्वविद्यालय

'समानो मन्त्रः समितिः समानी'

# UNIVERSITY OF NORTH BENGAL
### B.A./B.Sc. Honours 5th Semester Examination, 2023

## CC12-GEOGRAPHY (502)
### REMOTE SENSING AND GIS
### MODIFIED SYLLABUS

Time Allotted: 2 Hours                                                    Full Marks: 40

*The figures in the margin indicate full marks.*

### SECTION-I

1.  Answer any *five* questions from the following:                    1×5 = 5

    (a) Flying height
    (b) Scattering
    (c) Orthophoto
    (d) Atmospheric window
    (e) GPS
    (f) Spatial data
    (g) Swath
    (h) GOES.

### SECTION-II

**Answer any *three* questions from the following**                      5×3 = 15

2.  Discuss the different types of remote sensing platforms.                5

3.  Write a short note on the principles of remote sensing.                 5

4.  Write a note on various components of GIS.                              5

5.  Differentiate between spatial and non-spatial data.                     5

6.  Differentiate between Rayleigh Scattering and Mie Scattering.           5

### SECTION-III

**Answer any *two* questions from the following**                        10×2 = 20

7.  Give a detailed account on development of remote sensing.               10

8.  Explain the various properties of EMR with suitable diagrams.           10

9.  Discuss in detail about the geometry of aerial photograph with suitable diagrams.   10

10. Write down the application of remote sensing and GIS on forest monitoring.   10

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