



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours 5th Semester Examination, 2021

CC12-GEOGRAPHY

REMOTE SENSING AND GIS

Time Allotted: 2 Hours

Full Marks: 40

*The questions are of equal value
The figures in the margin indicate full marks.*

SECTION-I

1. Define any **five** from the following: 1×5 = 5
- (a) Spectral Resolution
 - (b) Active Sensors
 - (c) Spatial Data
 - (d) Geostationary Satellite
 - (e) Nadir Point
 - (f) Mie scattering
 - (g) Atmospheric window
 - (h) Focal Length.

SECTION-II

2. Answer any **three** questions from the following: 5×3 = 15
- (a) Briefly discuss different components of G.I.S. 5
 - (b) What are the basic geometric characteristics of Aerial photograph? 5
 - (c) Write a short note on the basic principles of photogrammetry. 5
 - (d) Compare between Raster and Vector data structure in G.I.S. 5
 - (e) Write a note on the applications of Remote sensing techniques in forests monitoring. 5

SECTION-III

3. Answer any **two** questions from the following: 10×2 = 20
- (a) Discuss the principles and types of satellite remote sensing. 10
 - (b) Explain EMR interaction with atmosphere and the earth surface in detail. 10
 - (c) Discuss the applicability of Remote sensing and G.I.S. in Land Use/Land Cover mapping. 10
 - (d) Describe the application of Remote sensing in studying urban sprawl analysis. 10

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