



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.A./B.Sc. Honours 5th Semester Examination, 2022

**CC12-GEOGRAPHY**

**REMOTE SENSING AND GIS**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**SECTION-I**

1. Define any **five** of the following: 1×5 = 5
- (a) Fiducial Mark
  - (b) Passive Sensor
  - (c) Swath
  - (d) NOAA
  - (e) Conjugate Principal Point
  - (f) Pixel
  - (g) Sun-synchronous Satellite
  - (h) Photogrammetry.

**SECTION-II**

**Answer any three questions of the following**

5×3 = 15

- 2. Discuss briefly different components of GIS. 5
- 3. Compare between Raster and Vector Data structure. 5
- 4. Differentiate between Aerial Photograph and Satellite Image. 5
- 5. Briefly discuss the role of Remote Sensing in Forest Monitoring. 5
- 6. Classify Aerial Photograph based on Optical Axis of Camera. 5

**SECTION-III**

**Answer any two questions of the following**

10×2 = 20

- 7. Describe the history and development of Remote Sensing. 10
- 8. Discuss the EMR interaction with atmosphere and earth surface. 10
- 9. Give an account of Spatial and Non-spatial data structures with suitable examples. 10
- 10. Write down the application of GIS in Resource Management. 10

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