



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours 5th Semester Examination, 2023

CC12-GEOGRAPHY

REMOTE SENSING AND GIS

OLD SYLLABUS [For students with registration session 2018-2019 to 2020-2021]

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) WGS-84
 - (b) GSLV
 - (c) Rayleigh Scattering
 - (d) Cartosat
 - (e) Aerial Photography
 - (f) Radiometric Resolution
 - (g) EMR
 - (h) Panoramic Camera.

SECTION-II

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

- 2. Define Sun-synchronous satellite. 5
- 3. Explain the various types of platforms used in Remote Sensing. Give suitable examples. 5
- 4. Define spectral signature and spectral reflectance curve. $2\frac{1}{2}+2\frac{1}{2}$
- 5. Explain different types of resolutions. 5
- 6. Differentiate between the terms Active Sensors and Passive Sensors. 5

SECTION-III

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

- 7. Discuss the different features of remote sensing satellites. Give suitable examples. 10
- 8. Explain the basic geometry for determination of Vertical Aerial Photograph's scale. 10
- 9. Explain the nature of spectral signature of water and vegetation. 5+5
- 10. Write about the application of GIS on rural-urban development. 10

—x—