



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.A./B.Sc. Honours 3rd Semester Examination, 2021

**SEC1-P1-GEOGRAPHY**

Time Allotted: 2 Hours

Full Marks: 60

*The figures in the margin indicate full marks.*

**The question paper contains SEC1A and SEC1B.  
The candidates are required to answer any *one* from *two* courses.  
Candidates should mention it clearly on the Answer Book.**

**SEC1A**

**REMOTE SENSING**

**SECTION-I**

1. Answer any **four** questions from the following: 3×4 = 12
- (a) What is Geo-stationary satellite?
  - (b) What is Rayleigh scattering?
  - (c) What is EMS?
  - (d) What is FCC?
  - (e) What is digital image processing?
  - (f) What is PSLV?

**SECTION-II**

**Answer any *four* questions from the following** 6×4 = 24

- 2. Discuss on application of Remote sensing on land use / land cover mapping studies. 6
- 3. Differentiate between Geostationary and Sun-Synchronous satellite. 6
- 4. Write about various satellites with their spatial resolution launched under Indian Remote Sensing (IRS) satellites programme. 6
- 5. Write about the concept of Blackbody radiation in Remote Sensing. 6
- 6. Discuss different types of sensors used in Remote Sensing. 6
- 7. Briefly describe the IRS satellite programme of India. 6

**SECTION-III**

**Answer any *two* questions from the following** 12×2 = 24

- 8. Elaborate the fundamental principles of Remote Sensing.

9. Define Remote Sensing. Discuss the History of the Development of Remote Sensing in India.
10. Write about various elements of visual image interpretation.
11. Explain about different types of platforms used in Remote Sensing.

## SEC1B

### RURAL DEVELOPMENT

#### SECTION-I

1. Answer any *four* questions from the following: 3×4 = 12
  - (a) SHG.
  - (b) Rural Governance.
  - (c) Target Group.
  - (d) Development Blocks.
  - (e) Sustainable Rural Developments.
  - (f) Multi level planning.

#### SECTION-II

##### Answer any *four* questions from the following

6×4 = 24

2. Critically discuss the Lewis model of economic development. 6
3. Discuss the various measures of the level of rural development. 6
4. Discuss the different measures taken for the rural development in drought prone areas. 6
5. Evaluate the role of Panchayati Raj system as a form of grass root level governance. 6
6. Evaluate the role of JSY in the rural development. 6
7. Discuss the impact of MNREGA on economy and livelihood security in India. 6

#### SECTION-III

##### Answer any *two* questions from the following

12×2 = 24

8. Discuss the different objectives and role of PM GSY in rural development. 12
9. Briefly discuss the major objectives of Jan Dhan Yojna. 12
10. Discuss the Gandhian Model of rural development. 12
11. Discuss the different rural development policies in India. 12

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