



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.A./B.Sc. Honours 3rd Semester [Special] Examination, 2022

**SEC1-P1-GEOGRAPHY**

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

Time Allotted: 2 Hours

Full Marks: 60

*The figures in the margin indicate full marks.*

**The question paper contains SEC-1A and SEC-1B.  
The candidates are required to answer any *one* from *two* courses.  
Candidates should mention it clearly on the Answer Book.**

**SEC-1A**

**REMOTE SENSING**

**SECTION-I**

1. Answer any **four** questions from the following: 3×4 = 12
- (a) What is photogrammetry?
  - (b) What do you mean by Atmospheric Window?
  - (c) What is sun-synchronous satellite?
  - (d) Define Blackbody radiation.
  - (e) What is Spatial Resolution?
  - (f) Introduce LANDSAT.

**SECTION-II**

2. Answer any **four** questions from the following: 6×4 = 24
- (a) Write about the basic components or segments of Remote Sensing. 6
  - (b) Mention the characteristics of Photogrammetry. 6
  - (c) Differentiate between active sensor and passive sensor. 6
  - (d) Discuss the different types of resolutions used in a satellite imagery. 6
  - (e) Distinguish between landsat and IRS. 6
  - (f) Write in brief about the various elements of visual image interpretation. 6

**SECTION-III**

3. Answer any **two** questions from the following: 12×2 = 24
- (a) Define remote sensing. Write about the advantages and disadvantages of remote sensing. 2+10
  - (b) Write about the interactions of EMR with earth's surface and atmosphere. 12

- (c) Discuss the historical development of Indian Remote Sensing Satellites (IRS) with their major applications. 12
- (d) Elaborate on the application of remote sensing in urban land use / land cover mapping. 12

## SEC-1B

### RURAL DEVELOPMENT

#### SECTION-I

1. Answer any **four** questions from the following: 3×4 = 12
- (a) Write in brief about PMGSY.
- (b) Define economic development.
- (c) What is Indira Awas Yojana (IAY)?
- (d) State the objectives of rural development.
- (e) What do you understand by agriculture and allied activities?
- (f) What are the features of Panchayati Raj?

#### SECTION-II

2. Answer any **four** questions from the following: 6×4 = 24
- (a) Discuss in brief the need for Rural Development in India. 6
- (b) Discuss the basic elements of rural development. 6
- (c) Write a short note on Gandhian Approach to rural development. 6
- (d) What is NABARD? What are the functions of NABARD? 2+4
- (e) Write in brief about the different committees appointed by Government of India to study self governance at rural level. 6
- (f) State different policies for development of rural India. 6

#### SECTION-III

3. Answer any **two** questions from the following: 12×2 = 24
- (a) Elaborate on Lewis Model of economic development. 12
- (b) Discuss the different objectives and role of SJSY in rural development. 12
- (c) State in detail about the MNREGA scheme for the development of rural areas. 12
- (d) Give a detailed account of Panchayati Raj System in India and highlight its short-comings in the present day scenario. 12

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