



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

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

**SEC1-P1-GEOGRAPHY (305)**

**MODIFIED SYLLABUS**

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) Atmospheric Window
  - (b) Sun-synchronous Satellite
  - (c) True Colour Composition
  - (d) Photogrammetry
  - (e) Spectral Signature Curve
  - (f) Temporal Resolution.

**SECTION-II**

2. Answer any **four** questions from the following: 6×4 = 24
- (a) Discuss briefly the different types of platforms used in remote sensing. 6
  - (b) Write about the principles of Satellite Remote Sensing in short. 6
  - (c) Differentiate active sensor from passive sensor. 6
  - (d) Write a short note on the importance of FCC in Satellite image interpretation. 6
  - (e) Classify different types of scattering. 6
  - (f) What are the advantages and disadvantages of Remote Sensing? 3+3

**SECTION-III**

3. Answer any **two** questions from the following: 12×2 = 24
- (a) Discuss the principles of photogrammetry for geographical studies. 12
  - (b) What do you mean by EMR? Analyse the visible spectrum of electromagnetic radiation. 6+6
  - (c) What is sensor? Discuss the types of Remote Sensing based on its sensor properties. 2+10
  - (d) Discuss about the various elements of Visual satellite image interpretation. 12

**SEC-1B**

**RURAL DEVELOPMENT**

**SECTION-I**

1. Answer any *four* questions from the following: 3×4 = 12
- (a) NABARD
  - (b) Target Group
  - (c) Sustainable Rural Development
  - (d) Rural Connectivity
  - (e) IRDP
  - (f) Community Development Programmes.

**SECTION-II**

2. Answer any *four* questions from the following: 6×4 = 24
- (a) Why do we need Rural Development in India? 6
  - (b) Write a short note on Jan Dhan Yojana. 6
  - (c) Mention the important measures of level of Rural Development. 6
  - (d) Briefly state the major problems of Rural Development in India. 6
  - (e) Mention the objectives of 'SGSY'. 6
  - (f) Outline the salient features of Gandhian approach to rural development in India briefly. 6

**SECTION-III**

3. Answer any *two* questions from the following: 12×2 = 24
- (a) What do you mean by Rural Development? Explain the basic elements of Rural Development. 2+10
  - (b) Discuss in detail the Lewis Model of Economic Development. 12
  - (c) Evaluate the MNREGA programme adopted in India as a poverty alleviation programme. 12
  - (d) Discuss the objectives, functions and organization of Panchayati Raj System in India. 12

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