



'समानो मन्त्रः समितिः समानी'

**UNIVERSITY OF NORTH BENGAL**

B.A./B.Sc. Honours 3rd Semester Examination, 2023

**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 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) Spatial Resolution
  - (b) Spectral Signature
  - (c) FCC
  - (d) Atmospheric Window
  - (e) Photogrammetry
  - (f) ISRO.

**SECTION-II**

2. Answer any **four** questions from the following: 6×4 = 24
- (a) Explain various types of remote sensing with examples.
  - (b) Differentiate between active sensor and passive sensor.
  - (c) Write a short note on various characteristics of Indian Remote Sensing Satellites (IRS).
  - (d) Distinguish between Sun Synchronous and Geo Stationary Satellites.
  - (e) Write a short note on supervised image classification techniques.
  - (f) What are the advantages and disadvantages of Remote Sensing?

**SECTION-III**

3. Answer any **two** questions from the following: 12×2 = 24
- (a) Define Remote Sensing. Write a note on the stages of Remote Sensing with sketches.

- (b) Explain the interaction of EMR with atmosphere.
- (c) Write a short note on the elements of Visual Image Interpretation.
- (d) Discuss the application of remote sensing in Land use and Land cover mapping.

**SEC1B**  
**RURAL DEVELOPMENT**

**SECTION-I**

1. Answer any **four** questions from the following: 3×4 = 12
- (a) Self help group
  - (b) NITI-Aayog
  - (c) Sustainable rural development
  - (d) PMGSY
  - (e) IRDP
  - (f) Target Group.

**SECTION-II**

2. Answer any **four** questions from the following: 6×4 = 24
- (a) Discuss the measures taken for rural development in drought prone areas with suitable examples.
  - (b) Explain the Lewis Model of Economic development.
  - (c) Write a short note on Jan Dhan Yojana.
  - (d) What are the impacts of 'Panchayati Raj' system in rural India?
  - (e) Discuss the basic Element of Rural development in India.
  - (f) What do you understand by the term 'gram swaraj'?

**SECTION-III**

3. Answer any **two** questions from the following: 12×2 = 24
- (a) Give an account of major rural development programmes in India after Independence.
  - (b) Briefly discuss various indicators for rural development in India.
  - (c) Discuss the impact of rural infrastructure availability in the well being of rural areas.
  - (d) Explain the impact of MNREGA on economy and livelihood in rural areas in India.

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