



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Honours 3rd Semester 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 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) Geo-Stationary Satellite
 - (b) What is FCC?
 - (c) Active Remote Sensing
 - (d) Atmospheric window
 - (e) Black-Body Radiation
 - (f) What is irradiance?

SECTION-II

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

- 2. Write on the principles of Aerial photography.
- 3. Write in short on 'Wave Model' and its significance in Remote Sensing.
- 4. Discuss the role of 'Shape', 'Tone' and 'Association' in Satellite image interpretation.
- 5. Discuss different types of Spectral Reflection/Reflectance of Vegetation and Soil. 3+3
- 6. Discuss briefly the advantages of Remote Sensing.
- 7. Explain the role of Remote Sensing in the field of mapping.

SECTION-III

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

- 8. Write in brief on the history of development of Remote Sensing in India.

9. Write the various processes of EMR interaction with the earth surface and atmosphere and its role in Remote Sensing. 8+4
10. Explain the application of Remote Sensing technology in land use and land cover mapping. 6+6
11. What is sensor? Discuss the types of Remote Sensing based on sensors and bands, with examples. 2+5+5

SEC1B

RURAL DEVELOPMENT

SECTION-I

1. Answer any *four* questions from the following: 3×4 = 12
- (a) What are the basic elements of Rural development?
- (b) Write on Jan Dhan Yojana.
- (c) NABARD
- (d) Write on Panchayat Raj System.
- (e) Self-Help Group (SHG)
- (f) What are the objectives of rural development?

SECTION-II

2. Answer any *four* questions from the following: 6×4 = 24
- (a) Discuss about MNREGA.
- (b) Discuss the measures of level of rural development.
- (c) Write a note on PMGSY.
- (d) Write a note on SGSY.
- (e) Write a note on National Agricultural Policy, 2000.
- (f) What are the impacts of 'Panchayat Raj-System' on rural Governance?

SECTION-III

3. Answer any *two* questions from the following: 12×2 = 24
- (a) Discuss the Lewis model of economic development. 12
- (b) Give an account of rural development policies in India to strengthen rural governance. 12
- (c) Give an account of the major rural development programmes in India since 1950. 12
- (d) Write in brief about the reflection of Gandhian approach in various rural development schemes in India. 12

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