UNIVERSITY OF NORTH BENGAL

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

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) Photogrammetry.

(b) What is EMR?

(c) Define spatial resolution.

(d) Define the three terms: 1+1+1
    (i) RADAR   (ii) LIDAR   (iii) SONAR SYSTEM

(e) What is Mie Scattering?

(f) Atmospheric Window.

SECTION-II

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

(a) Define Sensors. Discuss different types of sensors used in remote sensing.   1+5

(b) Differentiate between Geostationary and Sun-synchronous satellite.

(c) Briefly describe the IRS satellite programme in India.

(d) What is platform? Discuss about the different types of platforms used in Remote   2+4
    Sensing.

(e) Briefly describe the EMR interaction with earth surface with suitable diagrams.

(f) Write a short note on application of remote sensing in forest management with
    some examples.

SECTION-III

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

(a) Define Remote Sensing. Discuss about the historical development of remote sensing system.

(b) Write the processes of EMR interaction with atmosphere and their role in remote sensing.

(c) Discuss the role of various elements in visual image interpretation of a satellite image.

(d) Write the application of remote sensing in Landuse/Landcover mapping.

SEC1B
RURAL DEVELOPMENT

SECTION-I

1.   Answer any *four* questions from the following: 3×4 = 12

(a) Jan Dhan Yojana

(b) NITI Aayog

(c) Target group

(d) Multi-level Planning

(e) What do you mean by rural development?

(f) Discuss the importance of MNREGA.

SECTION-II

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

(a) Give an account of basic elements of rural development.

(b) Explain briefly the Lewis' model of economic development.

(c) Elaborate the major rural development policies of India after independence.

(d) Explain the role of Panchayati Raj System in rural governance.

(e) Write a note on NABARD.

(f) Write a short note on SGSY.

SECTION-III

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

(a) Explain the impact of rural infrastructure on rural poverty.

(b) Discuss the Gandhian approach of rural development.

(c) Discuss the different measures taken by the Indian Government for rural development in drought prone areas.

(d) Discuss critically how PMGSY is helping to change the rural development in India.

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