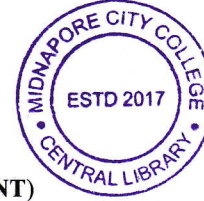


PG (CBCS)
M.A. /M.Sc. Semester-III Examination, 2022
GEOGRAPHY
 PAPER: GEO 303D
(APPROACHES TO REGIONAL DEVELOPMENT)



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

The figures in the right-hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

UNIT: GEO 303D.1

PHYSICAL BASIS OF REMOTE SENSING

Marks: 20

GROUP-A

- 1. Answer any ONE question: 1×8=8**
- a. Explain the atmospheric interaction with electromagnetic radiation.
 - b. Discuss about platforms and sensors available at present for acquisition of satellite imageries.

GROUP-B

- 2. Answer any TWO questions: 2×4=8**
- a. Explain the components of real Remote Sensing System.
 - b. Differentiate Radiant temperature from Kinetic temperature.
 - c. Describe the various types of resolutions of satellite imageries.
 - d. Explain the remote sensing data acquisition and data reception.

GROUP-C

- 3. Answer any TWO questions: 2×2=4**
- a. Define spectral signature curve.
 - b. What are the types of scattering?
 - c. What are the primary colours?
 - d. Differentiate between BIL and BSQ format of satellite image data.

(P.T.O.)

UNIT: GEO 303 D.2

PHOTOGRAMMETRY, AERIAL PHOTO AND SATELLITE SYSTEM

Marks: 20

GROUP-A



1. Answer any ONE question:

1×8=8

- a. Briefly explain with illustrations the concept of relief displacement and image parallax in aerial photographic operations.
- b. What are the different properties of photographic film which impact on the quality of aerial photograph?

GROUP-B

2. Answer any TWO questions:

2×4=8

- a. Distinguish whiskbroom from pushbroom satellite system with proper illustration.
- b. Write a brief note on digital photogrammetry.
- c. Write on different types of resolutions in satellite systems with suitable examples.
- d. Explain the working principle of mirror stereoscope with suitable diagrams.

GROUP-C

3. Answer any TWO questions:

2×2=4

- a. What is parallax?
- b. Define Nadir point.
- c. What is meant by fiducial marks?
- d. What is side lap and end lap?
