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PG CBCS

M.A. & M.SC. Semester-III Examination, 2021

GEOGRAPHY

PAPER: GEO 303D

(**REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM**)

Full Marks: 40 **Time: 2 Hours**

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

Write the answer for each unit in separate sheet

GROUP/UNIT

(GEO 303 D.1: PHYSICAL BASIS OF REMOTE SENSING)

Answer any TWO questions from the following: **2×10=20**

1. Explain Particle Theory on EMR.
2. State the characteristics of various satellite sensors of IRS Series.
3. Write a brief note on data acquisition, data product, and data dissemination of satellite remote sensing.
4. Classify sensors according to the source of energy. Mention the role of atmospheric constituents on remote sensing operation.
5. What are radiant and kinetic temperature? Describe the controlling factors of thermal remote sensing at the land surface.

GROUP/UNIT

(GEO 303 D.2: PHOTOGRAMMETRY, AERIAL PHOTO AND SATELLITE SYSTEM)

Answer any TWO questions from the following: **2×10=20**

1. Illustrate the procedure of height determination of an object from relief displacement.
2. Elucidate relative advantages and disadvantages of high oblique and low oblique aerial photographs.
3. Illustrate the condition for stereoscopic vision. How does rectification vary from orthorectification?
4. How do characteristics curves of photographic films explain about the multiple property of the film? Discuss with suitable diagrams.
5. Differentiate between whiskbroom and push broom satellite systems with proper illustration. Explain the principle of microwave remote sensing.

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