

Total page: 1

**PG CBCS**  
**M.A. & M.SC. Semester-IV Examination, 2021**  
**GEOGRAPHY**  
**PAPER: GEO 404D**  
**SPECIAL PAPER**  
**(REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM)**

**Full Marks: 40**

**Time: 2 Hours**

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**Write the answer for each unit in separate sheet**

**UNIT-404D.1**

(ADVANCED REMOTE SENSING)

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

1. How are kinetic temperature and radiant temperature significant for thermal remote sensing?
2. Write a note on different methods of image resampling citing examples.
3. Illustrate the conditions that determine the spatial resolution of Side Looking Airborne Radar (SLAR) system.
4. Briefly explain different methods of image pre-processing with suitable examples.

**UNIT-404D.2**

(ADVANCED GIS AND APPLICATIONS OF REMOTE SENSING)

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

1. Write a note on the integration of Remote Sensing and GIS for agricultural planning at the micro-scale.
2. Describe the different segments of GPS.
3. Give an account on raster-based overlay analysis with suitable examples.
4. Identify the components and importance of Spatial Data Information (SDI).

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