

PG (NEW) CBCS
M.A./M.Sc Semester-IV Examination, 2020
GEOGRAPHY
PAPER: GEO 404D
SPECIAL PAPERS
REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM

Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

UNIT-I

404D.1: ADVANCED REMOTE SENSING

Answer any one question of the following: (250 words) 20 x 1= 20

1. What are the advantages and possible applications of Microwave Remote Sensing?
2. State the different methods of image processing and their use in thematic mapping.
3. Identify possible area of applications of hyperspectral Remote Sensing. (20)
4. Examine with suitable examples the significance of emissivity in thermal remote sensing?. (20)
5. Explain the radiometric and geometric correction techniques involved in digital image processing? (10+10)
6. How does the combination of visual and digital image processing give better opportunity to interpret the earth surface? (20)

UNIT-II

404D.2: ADVANCED GIS AND APPLICATIONS OF REMOTE SENSING

Answer any one question of the following: (250 words) 20 x 1= 20

1. Write a note on Data source and Data models compatible to GIS. Elucidate the concept of Meta Data. (10+10)
2. Evaluate the scope of 3D GIS and Web GIS in spatial management. (20)
3. Enumerate the applications of GPS and GNSS. (20)
4. Why is the integration of Remote Sensing and GIS important in geographical studies?
5. Illustrate the application of Remote Sensing and GIS on land use/land cover mapping. (20)
6. Elucidate the application of Remote Sensing and GIS in Watershed management. (20)
