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21APG1C2L

M.Sc. I Semester Degree Examination, April/May - 2023 APPLIED GEOLOGY

Geoinformatics (CBCS)

Time: 3 Hours Maximum Marks: 70

- Note: Answer any five of the following questions with Question No. 1 (Q1) Compulsory, each question carries equal marks. 14 1. Answer the following: Explain in detail of electromagnetic radiation and how this relationship is related to the energy carried by the radiation with neat sketch. Discuss the role of Indian Remote Sensing (IRS) satellites and provide examples of its applications in this field. 2. Describe the Sun synchronous satellites and geostationary satellites. Include 14 at least two examples of each type of satellite, their functions and their orbits. 3. Discuss the different types of remote sensing platforms and sensors and their 14 applications in various fields. 4. 14 Answer the following: Describe the different types of map projections used in GIS. Explain the spatial data and non-spatial data in GIS and provide examples of (b) each. 5. Describe the different types of data sources used in GIS and explain how data 14 quality can be assessed and improved. Answer the following: 14 What is GPS? How it works?
- 6.
 - Discuss the limitations of the GPS technology.
- 7. Describe the different types of data visualization techniques used in GIS and 14 explain how they can be used to effectively spatial information communicate.
- 8. Write a short note on: 14
 - Stages of Remote Sensing
 - (b) Raster and vector data models
 - GIS and its components (c)

