

Code No: 157DM**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year I Semester Examinations, February/March - 2022****REMOTE SENSING AND GIS****(Civil Engineering)****Time: 3 Hours****Max. Marks: 75****Answer any five questions
All questions carry equal marks**

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- 1.a) Describe the various types of remote sensing platforms and sensors.
- b) Write a detail note on classification technique and why do we require accuracy assessment. [7+8]
- 2.a) Discuss spectral properties of soil, water and vegetation.
- b) Explain the concept of Image enhancement. [7+8]
- 3.a) Discuss some real life applications of GIS.
- b) What is the concept of Map transformation? [7+8]
- 4.a) Explain the different type of Map projections.
- b) Write a brief note on history of GIS. [7+8]
- 5.a) Discuss the entity-relationship model in DBMS.
- b) What are geo-database and metadata? Discuss. [7+8]
- 6.a) Describe vector data structure.
- b) What is GIS data model? Discuss. [7+8]
- 7.a) Differentiate between scanning and digitization with examples.
- b) How are spatial and network analysis carried out? Discuss. [7+8]
- 8.a) Discuss the developing system requirements while implementing a GIS.
- b) Explain the application of GIS for solving multi criteria problems. [7+8]

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