



R20 Regulation
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)
B.Tech VI Semester Regular Examinations, June/July 2023

Subject code: 3E6AB

REMOTE SENSING & GEOGRAPHIC INFORMATION SYSTEM
(Civil Engineering)

Maximum Marks: 70

Date:03.07.2023 Duration: 3 hours

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What is meant by Photogrammetry?
- 2 What are the uses of Aerial and/or Satellite Photogrammetry?
- 3 What is meant by Spectral Resolution?
- 4 What is visible wavelength band used in Earth Remote Sensing?
- 5 What are the major components of GIS system?
- 6 Define cylindrical projection.
- 7 What is base map?
- 8 List out different software used in Geographic Information System?
- 9 Name the methods used for conversion of data between raster and vector data forms.
- 10 What are the advantages of raster data model?

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 Elucidate the basic geometrical elements of a vertical aerial photograph with a neat sketch. (10)
OR
- 12 A. Discuss the parallax measurement of height determination. (8)
B. What is photo scale? Give an example. (2)
- 13 Analyze the elements or processes involved in earth remote sensing with a neat diagram. (10)
OR
- 14 Explain about energy sources available for remote sensing with a neat sketch. Discuss spectral characteristic curves. (10)
- 15 Describe the fundamental projection classification of maps. (10)
OR
- 16 Write short notes on the following term in the context of geographic coordinate system of Earth: latitude, longitude, parallel, meridian. (10)
- 17 A. What is topology and its importance in GIS? (6M)
B. Write about the method of obtaining vector data using scanners. (4M)
OR
- 18 A. Explain Vector data storage and attribute data storage in GIS. (6M)
B. Compare and contrast the raster and vector data model. (4M)
- 19 Explain in detail the Digitization and Scanning Processes in GIS. (10)
OR
- 20 Describe how raster and vector data models are handled in GIS. State their advantages and disadvantages. (10)