



Regulation R18

Subject code: 2P7AB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VII Semester Supplementary Examinations, April 2024

Remote Sensing & Geographic Information System
(CIVIL ENGINEERING)

Maximum Marks: 70

Date: 29.04.2024 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10X2M=20 Marks)

- 1 What is meant by Aerial photogrammetry?
- 2 What is meant by stereoscopy?
- 3 Define resolution.
- 4 Define a Map.
- 5 Explain attribute data
- 6 What are the 4 commonly used map projections?
- 7 What is coverage and nodes?
- 8 What is meant by shape file?
- 9 How do you create new data in GIS?
- 10 What is meant by metadata?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain different types of photogrammetry with a neat sketch. [10]
OR
- 12 a) Differentiate Aerial and Terrestrial photogrammetry. [5]
b) Explain in detail the types of Imagery Overlap with a neat sketch. [5]
- 13 Explain in brief the energy interaction with Earth surface and Atmosphere. [10]
OR
- 14 What is meant by Electromagnetic Spectrum? Explain it with different bandwidths. [10]
- 15 a) Define a map projection. Why is map projection necessary in map making? [5]
b) Discuss in detail about UTM projection. [5]
OR
- 16 Explain with a neat sketch the conical and cylindrical map projection. [10]
- 17 Write down advantages and disadvantages of vector data. [10]

OR

- 18 a) Discuss Spaghetti vector data model. [5]
b) Explain GBF/DIME vector model. [5]
- 19 Explain the Raster data editing with a neat sketch. [10]
- OR
- 20 a) Explain in detail various data conversion models. [5]
b) How do you digitize a map and write the types of digitizing data. [5]