



R20 Regulation

Subject code: 3E6AB

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

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

**B.Tech VI Semester Supplementary Examinations, November 2025**

**REMOTE SENSING & GEOGRAPHIC INFORMATION SYSTEM**

(CE)

Maximum Marks: 70

Date: 15.11.2025

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)		Marks	CO	BTL
1	List the advantages of Terrestrial photogrammetry.	2M	1	L1
2	What is meant by stereoscopy?	2M	1	L1
3	What is meant by FCC?	2M	2	L1
4	Define a Map.	2M	2	L1
5	What is geographic coordinate system?	2M	3	L1
6	What are the different operations performed in GIS?	2M	3	L1
7	List out the forms of vector data representation.	2M	4	L1
8	What is meant by object based vector data model?	2M	4	L1
9	What is meant by on screen digitization?	2M	5	L1
10	How do you convert the existing data in GIS?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	What are the Advantages and Disadvantages of Aerial Photogrammetry?	10M	1	L2
OR				
12	a) What is overlap and what are types of overlap? b) How do you measure the object height using Relief Displacement?	5M 5M	1	L2
13	What is Resolution? Explain briefly the types of resolution.	10M	2	L2
OR				
14	a) What are the Advantages and disadvantages of remote sensing? b) What are the applications of remote sensing?	5M 5M	2	L2
15	Explain in detail about the map projections in GIS.	10M	3	L2
OR				
16	Explain the role of importance of GIS in civil engineering point of view.	10M	3	L2
17	Explain topological model of vector data.	10M	4	L2

	<b>OR</b>			
18	Explain in brief how a vector data is represented.	10M	4	L2
19	What is Overlay? Explain point and line in polygon overlay in Raster.	10M	5	L2
	<b>OR</b>			
20	a)What are the different methods of data input in GIS?· b) Discuss the various types of errors occur during digitization with sketches.	5M 5M	5	L2