



R18 Regulation

Subject code:2P7AB

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

## B.Tech VII Semester Supplementary Examinations, November 2023

### REMOTE SENSING & GEOGRAPHIC INFORMATION SYSTEM (Civil Engineering)

Maximum Marks: 70

Date:08.12.2023 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 which carries 10M.
  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 stereoscopy?	L1
2	What is meant by Aerial photogrammetry?	L1
3	Define resolution.	L1
4	Expand FCC. What is meant by FCC?	L1
5	Explain datum and its importance.	L1
6	Explain attribute data	L1
7	What is meant by vector data?	L1
8	List out the forms of vector data representation.	L1
9	What is IMGRID model	L1
10	What is scanning?	L1

#### Part-B

Answer All the following questions.

(5X10M=50Marks)

11	a) List out the Applications of Photogrammetry. (5M) b) Differentiate map and mosaic. (5M)	L2 L2
OR		
12	What are the Advantages and Disadvantages of Aerial Photogrammetry. (10M)	L2
13	Discuss briefly each term involved in interacting the energy with atmosphere. (10M)	L2
OR		
14	a) What is meant by color composite. Explain the types of color composites. (5M) b) Differentiate data and information. (5M)	L3 L2
15	a) Write various definitions of GIS. (5M) b) Write short notes on applications areas for GIS. (5M)	L2 L3
OR		
16	What is overlay? Briefly explain the vector and raster overlay with a neat sketch. (10M)	L3
17	Explain different types of vector data models in GIS. (10M)	L3
OR		

18	What is Topology? Explain different types of topology with a neat sketch. (10M)	L3
19	What are the different data input methods in GIS? (10M)	L3
	OR	
20	a) What are the different methods of data input in GIS? (5M)	L2
	b) What are the advantages and disadvantages of manual digitizing? (5M)	L3