



R20 Regulation

Subject code:3E6AB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, December 2024

Remote Sensing & Geographic Information System

(Civil Engineering)

Maximum Marks: 70

Date:07.01.2025

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 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)		CO	Bloom Tx
1	What is Image Parallax?	1	L1
2	Differentiate Vertical and Tilted Photographs.	1	L1
3	Define Remote Sensing	2	L1
4	Define satellite.	2	L1
5	Explain attribute data	3	L1
6	What is meant by data exploration	3	L1
7	What is coverage and nodes?	4	L1
8	What are the advantages of vector data over raster data?	4	L1
9	What is Digitization?	5	L1
10	How do you convert the existing data in GIS?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Explain image parallax in photogrammetry. How do you find parallax using different methods? [10M]	1	L2
OR			
12	Explain atmospheric Window? Explain various atmospheric constituents responsible for absorption in visible through thermal infrared region of electromagnetic spectrum. [10M]	1	L2
13	A) Explain in brief the energy interaction with Earth surface. [5M] B) What is meant by scattering? What are the types of scattering? [5M]	2	L2
OR			
14	A) What is meant by data and information? [5M] B) Differentiate Active and Passive Remote sensing with a neat sketch. [5M]	2	L2
15	A) Explain the process of joining spatial data with attribute data in GIS. [5M] B) What are the sub systems of GIS? Discuss the advantage of analysis sub system. [5M]	3	L2

	OR		
16	Discuss the various types of data representation in GIS with suitable examples. [10M]	3	L2
17	Explain topological model of vector data. [10M]	4	L2
	OR		
18	How a vector data is represented? Explain in brief. [10M]	4	L2
19	Differentiate between manual and automatic digitization. [10M]	5	L2
	OR		
20	Explain different data input methods in GIS. [10M]	5	L2