



R20 Regulation

Subject code: 3E6AB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, February 2024

REMOTE SENSING & GEOGRAPHIC INFORMATION SYSTEM

(Civil Engineering)

Maximum Marks: 70

Date: 24.02.2024 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 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	Define the Scale of a vertical aerial photograph.	CO1	L1
2	What is meant by Focal length of lens in aerial photography?	CO1	L1
3	Define Radiometric Resolution.	CO2	L1
4	Name the energy sources in IRS Optical remote sensing.	CO2	L2
5	What are the advantages of GPS?	CO3	L1
6	Name some data input devices.	CO3	L2
7	Define topographic map	CO4	L1
8	What is attribute data or non-spatial data?	CO4	L1
9	What is data conversion?	CO5	L2
10	What is meant by cleaning in data editing?	CO5	L2

Part-B

Answer All the following questions.

(5X10M=50Marks)

11	Discuss about various types of Aerial Photogrammetric techniques.	CO1	L2
	OR		
12	A. What is Fiducial Center? How it is determined? Explain with a neat diagram. (7M) B. What are three types of errors in photogrammetry? (3M)	CO1	L1 L2
13	Analyze the elements or processes involved in earth remote sensing with a neat diagram. (10M)	CO2	L3
	OR		
14	Describe the electromagnetic spectrum with neat sketch for remote sensing data. (10M)	CO2	L3
15	Explain in detail about the map projections in GIS. (10M)	CO3	L3
	OR		
16	What are the components of GIS? Explain. (10M)	CO3	L2
17	A. Discuss about GIS data analysis. (5M) B. Compare the characteristics of spatial & non-spatial data. (5M)	CO4	L3 L3
	OR		

18	A. What is shape file? What are the different types of features in vector data model? (5M) B. Write the sources of vector data. (5M)	CO4	L3 L2
19	What are the available software packages for creating GIS projects? Explain. (10M)	CO5	L3
	OR		
20	A. What is digitizing operation in GIS? (3M) B. Discuss the importance of source map and GIS applications. (7M)	CO5	L2 L3