R20 Regulation *Subject code:3O8AA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VIII Supplementary Examinations, May 2026

GEO INFORMATICS

(Common to ME & CSE)

Maximum Marks: 70 Date: 06.05.2026 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)		Marks	CO	Bloom Tx
1	Write any two advantages of Terrestrial photogrammetry.	2M	1	BL2
2	What is meant by stereoscopy?	2M	1	BL1
3	Expand FCC. What is meant by FCC?	2M	2	BL2
4	Define a Map.	2M	2	BL1
5	Differentiate Spatial and Attribute data.	2M	3	BL2
6	Give some examples of data that is stored in Raster form.	2M	3	BL1
7	What is coverage and nodes?	2M	4	BL1
8	What are the advantages of vector data over raster data?	2M	4	BL1
9	List any two navigation satellites.	2M	5	BL1
10	Explain datum importance.	2M	5	BL1
	Part-B			
Answer All the following questions. (5X10M=50Marks)		Marks	CO	Bloom Tx
11	What are the advantages and disadvantages of Aerial Photogrammetry?	10M	1	BL2
	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	BL2
13	a) What is Resolution? Explain briefly the types of resolution. b) Explain in brief the elements of visual image interpretation techniques.	5M 5M	2	BL3
	OR			
14	a) Explain in detail the various types of resolution in remote sensing. b) Discuss in detail the concept of spectral signatures of Earth features and the "multi" concepts in remote sensing.	5M 5M	2	BL3
15	Explain the role of image histograms in satellite image processing. How can histogram analysis be used for image enhancement?	10M	3	BL3
	OR			
16	Explain the supervised classification and unsupervised classification.	10M	3	BL3

17	Write down advantages and disadvantages of vector data.	10M	4	BL3
	OR			
18	a) Explain in detail the types of GIS data. b) Explain how will you store physical features in raster format with examples.	5M 5M	4	BL3
19	What are the various map projection parameters? Explain them in detail.	10M	5	BL4
	OR			
20	Explain with a neat sketch the conical and cylindrical map projections.	10M	5	BL4