

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-GURUJADA VIZINAGARAM**

III B. Tech II Semester Regular/Supplementary Examinations November -2025

**REMOTE SENSING & GIS**

(OPEN ELECTIVE)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

\*\*\*\*\*

		<b><u>UNIT-I</u></b>	
1.		What are the sensors used in the Landsat and explain?	[14M]
		(OR)	
2.		What is electromagnetic spectrum? Explain with a neat sketch	[14M]
		<b><u>UNIT-II</u></b>	
3.	a)	Summarize the elements of visual interpretation.	[14M]
		(OR)	
4.	a)	Explain about supervised classification.	[7M]
	b)	Explain about digital image processing.	[7M]
		<b><u>UNIT-III</u></b>	
5.		What do you understand by spatial data and attribute data? How are they integrated to make a GIS?	[14M]
		(OR)	
6.	a)	Explain different types of data entry in GIS.	[7M]
	b)	Explain the application areas of GIS.	[7M]
		<b><u>UNIT-IV</u></b>	
7.	a)	Explain different overlay functions in spatial data analysis.	[7M]
	b)	Explain about network tracing	[7M]
		(OR)	
8.	a)	Summarise a scenario in which Intersect is preferred over Union for an overlay operation.	[7M]
	b)	Explain about conditional expressions.	[7M]
		<b><u>UNIT-V</u></b>	
9.		Explain along with a flow chart how remote sensing and GIS is useful for the preparation of land use/land cover map a particular area.	[14M]
		(OR)	
10.		Explain the application of remote sensing and GIS in watershed management for sustainable development.	[14M]

\*\*\*\*\*