CBCS SCHEME

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BCV515D

Fifth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
Remote Sensing and GIS

Time: 3 hrs. Max. Marks: 100

Note: 1. *Answer any FIVE full questions, choosing ONE full question from each module.*
2. *M : Marks , L: Bloom's level , C: Course outcomes.*

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		Module – 1	M	L	C
Q.1	a.	What is Remote Sensing? Explain types of Remote sensing.	6	L1	CO1
	b.	Explain interaction of Electromagnetic Radiation with Earth surface.	7	L1	CO1
	c	Discuss different types of platforms used in Remote sensing.	7	L1	CO1
		OR			
Q.2	a.	Describe stages (components) of Remote sensing.	7	L2	CO1
	b.	What are sensors? Discuss Resolution of sensing.	6	L2	CO1
	c.	Explain key elements of visual interpretation.	7	L2	CO1
		Module – 2			
Q.3	a.	Define photogrammetry? Explain the field of application of photogrametry	8	L2	CO2
	b.	Discuss advantages and disadvantages of phogrammetry.	6	L2	CO2
	c.	Write a note on Digital photogrametry.	6	L2	CO2
		OR			
Q.4	a.	What is Aerial phtogrammetry? Discuss its importance.	7	L2	CO2
	b.	Write a note on : i) Geometry of vertical photogrametry ii) Relief displacement.	7	L2	CO2
	c.	Discuss scale ground co-ordinators.	6	L2	CO2
		Module – 3			
Q.5	a.	Define GIS? Explain components of GIS.	10	L2	CO3
	b.	Explain different data modules of GIS.	10	L2	CO3
		OR			
Q.6	a.	Explain Functions of GIS.	8	L2	CO3
	b.	Discuss importance of Topologies in GIS.	6	L2	CO3
	c.	Enumerate Advantages/Disadvantages of Vector Data.	6	L2	CO3

		Module – 4			
Q.7	**a.**	Explain the application of Remote Sensing (RS) in water resource management.	7	L3	CO4
	b.	Explain importance of Remote sensing in natural Resource management.	6	L3	CO4
	c.	What are the criteria considered during highway alignment using Remote sensing?	7	L3	CO4
		OR			
Q.8	**a.**	Explain the application of RS and GIS on Accidental analysis and Traffic management.	8	L3	CO4
	b.	Write a note GIS and GPS.	6	L2	CO4
	c.	Discuss importance of GPS in Remote Sensing image interpretation.	6	L2	CO4
		Module – 5			
Q.9	**a.**	Explain the application of Remote sensing and GIS in urban planning and Forestry.	7	L3	CO5
	b.	How Remote sensing and GIS is using in change detection study.	6	L3	CO5
	c.	Discuss application of Remote sensing and GIS in Agriculture.	7	L3	CO5
		OR			
Q.10	**a.**	How the disaster management study analysed by using RS and GIS.	8	L3	CO5
	b.	Write a note on i) Urban sprawl ii) Circular system	6	L3	CO5
	c.	Explain the application of Remote sensing and GIS in urban area development and layout planning.	6	L3	CO5

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