

U.S.N.

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

January 2024 Semester End Main Examinations**Programme: B.E.****Branch: Institutional Elective****Course Code: 21CV7OERSG****Course: Remote Sensing and Geographic Information system****Semester: VII****Duration: 3 hrs.****Max Marks: 100**

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			UNIT - I	CO	PO	Marks
	1	a)	Discuss the method of adding behavior to the geodatabase.	CO1	PO1	10
		b)	Explain topology and its benefits in the geodatabase.	CO1	PO1	05
		c)	Describe the types of data that can be represented as objects in a geodatabase.	CO1	PO1	05
			UNIT - II			
	2	a)	Differentiate between Multi-Objective Decision Making (MODM) and Multi-Attribute Decision Making (MADM).	CO2	PO1	10
		b)	With a Decision Matrix Flow-sheet, explain the criteria weight in a MCDA.	CO2	PO1	10
			UNIT - III			
	3	a)	Explain the following topological operations i) Buffering ii) Overlay iii) Dissolve iv) Clip v) Union	CO3	PO1	10
		b)	Write a note on reclassification of the raster data.	CO3	PO1	10
			UNIT - IV			
	4	a)	Explain structure of an ideal expert GIS system.	CO3	PO1	10
		b)	Discuss spatial and relational databases.	CO3	PO1	10
			OR			
	5	a)	Location based services and GIS integration makes business more efficient and productive. Justify with an example.	CO3	PO1	10
		b)	Define an Expert GIS system and discuss its structure in detail.	CO3	PO1	10
			UNIT - V			
	6	a)	Define Enterprise GIS highlighting the capabilities and objectives.	CO3	PO1	10

		b)	Discuss the case study on the use of GIS in Covid-19 vaccination programme.	<i>CO3</i>	<i>PO1</i>	10
			OR			
	7	a)	Elaborate on things that need considerations during planning of enterprise GIS for an organization.	<i>CO3</i>	<i>PO1</i>	10
		b)	Discuss any two case studies on the use of GIS in traffic management and policies.	<i>CO3</i>	<i>PO1</i>	10

B.M.S.C.E. - ODD SEM 2023-24