U.S.N. ☐☐☐☐☐☐☐☐☐☐

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

Autonomous Institute Affiliated to VTU

August 2024 Supplementary 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.

UNIT - I

1	a)	Explain the silent features of the geodatabase	**05**
	b)	Explain topology and its benefits in the geodatabase.	**05**
	c)	Explain the methods of geodatabase creation and organization.	**10**

UNIT - II

2	a)	Differentiate between Multi-Objective Decision Making (MODM) and Multi - Attribute Decision Making (MADM).	**10**
	b)	Explain the process of making decisions under certainty and uncertainty.	**10**

UNIT - III

3	a)	Differentiate between Vector and Raster Data. Explain key characteristics of Raster data manipulation operations.	**10**
	b)	Explain the following topological operations i) Buffering ii) Overlay iii) Dissolve iv) Clip	**10**

UNIT - IV

4	a)	Explain spatial and relational databases.	**10**
	b)	Explain basic concepts of XML and GML and its advantages.	**10**

OR

5	a)	Elaborate on Mobile GIS and its capabilities.	**10**
	b)	Explain structure of an ideal expert GIS system.	**10**

UNIT - V

6	a)	Define Enterprise GIS highlighting the capabilities and objectives.	**10**
	b)	Explain the criteria that decides RDBMS software selection.	**10**

OR

7		Discuss case studies on	
	a)	Application of GIS in healthcare services	**10**
	b)	Application of GIS in Disaster Management in flooded areas.	**10**

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