02000CET296062202

Course Code: CET296

Course Name: GEOGRAPHICAL INFORMATION SYSTEMS

Max. Marks: 100 Duration: 3 Hours

PART A

		(Answer all questions; each question carries 3 marks)	Mark
1		Define Vector Data	3
2		List out the coordinate systems in GIS software	3
3		Differentiate Active sensors and Passive sensors	3
4		Distinguish between pattern analysis and network analysis.	3
5		What are the different types of geometric transformations?	3
6		Illustrate the role of atomic clock in GPS.	3
7		Write any four Application of GIS	3
8		Define Buffering	3
9		Explain Zonal operation in Raster Data Analysis	3
10		Define the terms: Slope and Aspect	3
		PART B	
		(Answer one full question from each module, each question carries 14 marks)	
		Module -1	
11	a)	Explain the operations in GIS	6
	b)	List out the types of Map Projections	8
12	a)	Explain Map Projection on the basis of properties preserved and View point	7
	b)	List out the components of GIS	7
		Module -2	
13	a)	List out two advantages and disadvantages of Vector models and Raster models	8
	b)	Illustrate the types of relationships in Attribute data management with figure.	6
14	a)	Differentiate between title and scale in map making	7
	b)	Highlight the role of digitisation in map preparation	7

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Module -3

15	a)	Explain the different types of network analysis methods in GIS	10
	b)	Write short note on Pattern analysis	4
16	a)	Write a short note on vector data analysis – overlay	5
	b)	What are the different zonal operations suggested in the neighbourhood analysis	9
		of raster data. Explain with figure?	
		Module -4	
17	a)	List out the components in Data quality	6
	b)	Explain different sources of error in a GIS operation	8
18	a)	List out the applications of WebGIS	7
	b)	Explain any two terrain mapping techniques	7
		Module -5	
19	a)	List out the uses of GPS.	5
	b)	Explain the factors affecting GPS accuracy.	9
20	a)	Differentiate between ground based remote sensing and satellite based remote	5
		sensing.	
	b)	Explain different applications of remote sensing in GIS	9
