

B.E. 2008 (Information Technology) Geo Informatics System (Elective - IV) (Semester - II)	of Pages: 02
Geo Informatics System (Elective - IV) (Semester - II) Time: 3 Hours Max. M Instructions to the candidates: 1) Answers to the two sections should be written in separate answer books. 2) Answer three questions from each section. 3) Neat diagrams must be drawn wherever necessary. 4) Figures to the right side indicate full marks. 5) Use of Calculator is allowed.	1arks : 100
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6) Assume Suitable data if necessary	
SECTION I	
Q1) a) Explain in detail image Enhancement, Registration and Classification and Analysis?	[10]
b) Explain logarithmic and exponential contrast stretch in detail?	[8]
OR	[0]
Q2) a) Which are various factors that can affect the remotely sensed digital im-	age? [10]
Explain in detail the technique used to make these affected images smooth?	
b) Explain each basic element of image interpretation with diagram and its rol	le in [8]
Image Processing?	III [[O]
Q3) a) Explain remote sensing process in detail? Explain linking process of RS with in brief?	GIS [8]
b) Explain in detail all satellite system parameters and their significance in rer sensing?	note [8]
OR	
Q4) a) Explain RADAR basic principle? Explain any application of RADAR?	[8]
b) Draw and explain in detail the wave model of electromagnetic radiation?	[8]
Q5) a) Explain how map projection used in GIS to generate maps based on geo sp	atial [8]
information? Assume suitable geo information and apply map projection?	
b) Draw and explain the architecture of GIS system?	[8]
Q6) a) Explain Arch hydro data model in detail with neat block diagram?	[8]
b) What is map projection? List and explain the issues in designing the maps?	[8]
SECTION II	[0]
Q7) a) What is affine transformation? Explain the three operations applied on	the [10]
remotely sensed images?	
b) Explain the errors in GIS data with suitable example in detail?	[6]
OR	
Q8) a) Explain the method used to restore the geometrically distorted images? Write	e the [10]
suitable equations and draw the diagrams?	
b) Explain quality factor of GIS data in detail? Write Harwood's short law on da	ta? [6]

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Q9)	-	Explain the following terms	[18]
	a)	Graph representation of Spatial data	
	b)	Vector and Raster data representation	
	c)	Types of data in GIS	
		OR	
Q10)		Explain the following terms	[18]
N	a)	GIS data model	
	b)	Vector and Raster GIS Model	
	c)	GIS database integration	
Q11)	a)	Explain the steps which may be followed by Municipal corporation to implant	[10]
		LPG gas pipeline system in the city? Assume suitable data?	[.0]
	b)	Explain in detail which components support GIS Application Design and	[6]
		Development?	r. 1
		OR	
Q12)	a)	Explain in detail the step by step use of GIS towards water supply planning and	[10]
		management in the city?	[]
	b)	Explain how GIS Database Design, Development, and Integration strengthen GIS	[6]
		projects designing?	[]

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