Tota	l No.	of Questions : 6] SEAT No. :
P19	26	[Total No. of Pages : 2
		[5254]-25
		B.E. (Civil) (Semester - II)
		GEOINFORMATICS
		(2008 Pattern) (Open Elective)
Time	e:3 E	Hours] [Max. Marks: 100
Instr	ructio	ons to the candidates:
	<i>1)</i>	Answer three questions from each section.
	<i>2)</i>	Answers to the two sections should be written in separate books.
	3)	Neat diagrams must be drawn wherever necessary.
	<i>4)</i>	Figures to the right indicate full marks.
	<i>5)</i>	Assume suitable data if necessary.
		<u>SECTION - I</u>
Q 1)	a)	Describe characteristics of LANDSAT. [8]
	b)	Discuss Visual Image Interpretation. Write the Elements of Visual Image Interpretation. [8]
		OR
	a)	Explain EMR. State the characterization for different frequencies on images. [8]
	b)	Define resolution and explain any 4 types. [8]
Q2)	a)	What is false colour composite (FCC) Images? What are its advantages? [8]
	b)	Write a note on: [8]
	,	i) Image Rectification.

ii) Thermal & Infra Red Satellite

OR

a) Explain any two satellite images and its application.

[8]

b) Write a note on:

[8]

- i) Supervised Classification.
- ii) Unsupervised Classification.

Q3)	a)	Describe Characteristics of IR Images.	10]
	b)	"Geometric" Corrections in Images under processing.	[8]
	ĺ	OR	_
	a)	What is Digital Image processing and briefly explain its application.	10]
	b)	Discuss the flow chart application of remote sensing in ground was	_
		assessment.	[8]
		SECTION - II	
Q4)	a)	Define GIS? Explain in detail its components.	[8]
	b)	Explain.	[8]
		i) Vector Model	
		ii) Map Resolution	
		OR	
	a)	What is 'MAP'? Describe different types of maps in brief. What are	its
		limitations?	[8]
	b)	Write a note on:	[8]
		i) Hardware and Software for GIS	
		ii) Attributes.	
Q5)	a)	What is GPS? Explain its importance in GIS tooling.	[8]
	b)	What is RDBMS? Explain the Normal form with one example.	[8]
		OR	
	a)	Write a note 'Buffering'.	[8]
	b)	Describe 'Raster' data structure. Write advantages and disadvantages.	[8]
Q6)	a)	Explain application of Geo Informatics in following areas:	10]
		i) Geotechnical Engineering.	
		ii) Water Resource management through canal irrigation.	
	b)	Write in detail Digital Image Processing.	[8]
		OR	
	a)	Explain application of Geo Informatics with working flow charts	in
		following areas:	10]
		i) Road Survey and Investigations.	
		ii) Infrastructure Development.	
	b)	Write a brief note on "Role of GIS in Terrain Analysis".	[8]

