[Total No. of Pages :2

[5154]-25 B.E. (Civil) Geoinformatics

(2008 Course) (Semester-II) (Open Elective) (401008 DB)

Time : 3 Hours]

P2654

[Max. Marks :100

Instructions to the candidates:

- 1) Answer three questions from each section.
- 2) Answers to the two sections should be written in sepatrate books.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right side indicate full marks.
- 5) Assume Suitable data if necessary.

SECTION-I

Q1) a)	Explain EMR. State the characteristics of different frequencies. [8]
b)	Define resolution and explain any 2 types. [8]
	OR
a)	Describe characteristics of LANDSAT 1,2, & 3. [8]
b)	What are the elements of visual image interpretation? Explain their significance and factors influencing them. [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) Geo referencing.
a)	OR Explain supervised and Unsuperivised Classification. [8]
a)	Explain supervised and Onsuperivised Classification. [6]
b)	Explain any two satellite images and its application. [8]
Q3) a)	Describe characteristics of IR images. [10]
b)	"Geometric" Corrections in Images under processing. [8] OR

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- What is Digital Image Processing and briefly explain its application.[10] a) [8]
- Write a note on 'System Pour 1' Observation de la Terre. b)

SECTION-II

Q4)	a)	What is 'MAP'? Describe different types of maps in brief. What are it limitations? [8	
	b)	Explain. [8 i) Vector Model. ii) Resolution.]
	a)	OR Define GIS? Explain in detail its components. [8	a
	a) b)	Define GIS? Explain in detail its components.[8]Write a note on:[8]	_
	,	i) Data types in DBMS.ii) Attributes.	I
Q5)	a) b)	Explain any one GIS software's and write a detail account on its modules. [8] What is RDBMS? Explain the normal form with one example. [8]	
		OR	
	a) b)	Write a note 'Buffering'.[8]Describe 'Raster' data structure. Write advantages and disadvantages.[8]	
Q6)	a)	Explain application of Geo informatics in following areas: [10 i) Geotechnincal Engineering.]
	1 \	ii) Water Resource management through canal irrigation.	
	b)	Write a brief note on "Role of GIS in Terrain Analysis"[8]	
		OR	
	a)	Explain application of Geo Informatics with working flow charts in following areas: [10]	
		 i) Road survey and Investigations. ii) Infractive Development 	
	b)	ii) Infrastructure DevelopmentWrite in detail Satellite Data acquisition. [8]	3
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