M.E. Fourth Scmester (Civil (Environmental Engineering)) (P.T.)(CBS)

13412 : Elective : Remote Sensing & GIS In Environmental Engineering

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AU - 3223

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P. Pages: 1 Time: Three Hours		Hours	MINIMINI 42CEF 2	AU - 3223 Max. Marks : 80	
	Notes:	1. 2. 3. 4.	All question carry equal marks. Answer three question from Section A and three question from Section Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary.	ion B.	
			SECTION – A		
1.	a) W	rite al	oout basic concepts of remote sensing.	7	
	b) De	escribe	e active and passive remote sensing systems.	7	
2.			you understand by atmospheric scattering? What are atmospheric win lectromagnetic spectrum? Explain with examples.	ndows 13	

3. 7 Write the different resolutions of all the sensors of any Indian Remote sensing satellite. a)

b) Differentiate between Histogram and scatter plot with respect to their use.

What do you mean by resolution of satellite data? Describe in details various types of 13 resolutions.

Why image registration is necessary for digital analysis? Explain in details the various 13 steps and procedure involved in supervised certificate.

SECTION - B

What is GIS? What are various steps involved in GIS analysis? Explain with diagrams. 13 6.

7. 7 Explain the integrated analysis of spatial and attribute data. a)

7 Write a short note on Raster data. b)

"Geoinformatics is a tool for spatial data management aimed at better resource planning" 13 8. comment on statement giving suitable examples.

9. Describe in brief advantages & limitation of GIS. 7 a)

Explain the need of transferring raster data to vector data. 6 b)

10. Explain the methodology adopted, RS data selection and parameters involved in 13 application of RS and GIS in environmental Engineering Investigations.
