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Important Note

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USN	CHIKOLN;;1	V/C1563
	Fifth Semester B.E. Degree Examination f 202	0
Remote Sensing and GIS		
Tim	ne: 3 hrs. Max. M	arks: 100
Note: Answer HIE full questions, choosing ONE full question from each module.		
Module-1		
I	a. With a neat sketch, explain the process of remote sensing.	(10 Marks)
	h. Briefly explain how energy interactions with earth features, i.e. soil and vegetation	
	remote sensing.	(10 Marks)
	OR	
2	a. What is visual interpretation technique? List and explain in brief the elements	
	interpretation techniques.	(10 Marks)
	b. With neat sketch, explain the electromagnetic spectrum with its wavelengths.	(10 Marks)
	Module-2	44.0
3 &	• 1	(10 Marks)
	b. Define resolution and explain the types of resolutions.	(10 Marks)
	OR	
4	a. What are the types of errors in remote sensing? Explain them briefly.	(10 Marks)
	b. Explain in detail the image enhancements and image filtering techniques used	(10 Marks)
	sensing.	(10 Marks)
_	Module-3	(4035.1)
5	<ul><li>a. What are the components of GIS? Explain in brief the various components.</li><li>b. Explain the process of joining spatial and attribute data in GIS.</li></ul>	(10 Marks) (10 Marks)
		(10 Marks)
_	OR With Gaves applies the LUTA and a good in CIC	(10.35 1 )
6	<ul><li>a. With figure, explain the UTM zones used in GIS.</li><li>b. What are map. projections? Explain the various map projection methods in brief. (</li></ul>	(10 Marks)
7	Module-4	(10
7	<ul><li>a. Explain briefly the representation of various features in raster data structures.</li><li>b. Explain the comparison of raster data and vector data models with traditional a</li></ul>	(10 Marks)
	and disadvantages.	(10 Marks)
	-	(10 1/14/115)
o	a. List and explain the different types of raster data models.	(10 Marks)
8	<ul><li>b. Define topology and explain its importance in GIS with advantages and disadvant</li></ul>	
	of Define topology and explain to importance in else with an antique and elsew and	(10 Marks)
	Module-5	
9	a. Briefly explain the importance of integration of remote sensing and GHS.	(10 <b>Marks</b> )
	b. Explain the application of remote sensing in traffic management.	(10 Marks)
OR		
10	a. What are the applications of remote sensing in land use / land cover analysi	s? Briefly
	explain.	(10 <b>Marks</b> )
	b. Explain the application of remote sensing and GIS in environmental and urban pla	
		(10 <b>Marks</b> )