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Code No: **R41014**

Time: 3 hours

IV B.Tech I Semester Supplementary Examinations, October/November - 2017 REMOTE SENSING AND GIS APPLICATIONS

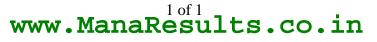
R10

(Civil Engineering)

Max. Marks: 75

Answer any Five Questions All Questions carry equal marks

1	a)	What do you understand by 'Remote sensing'? Explain the basic components of remote sensing.	[8]
	b)	Explain wave mode of Electromagnetic radiation.	[7]
2	a)	Explain 'air borne' and 'space borne' remote sensing.	[8]
	b)	What are digital image data formats? Explain.	[7]
3	a)	Explain the various elements of visual interpretations.	[8]
	b)	What is image classification? Explain.	[7]
4	a)	Explain the term 'GIS'. What are the applications of GIS?	[8]
	b)	Describe GIS in the context of information structure.	[7]
5	a)	What do you understand by spatial, thematic and temporal dimension of geographic data? Explain.	[8]
	b)	Explain the 'Vector data Models'.	[7]
6	a) b)	What is 'Geographical data analysis'? Why is it required? What are the various geospatial analysis techniques? Explain 'Overlay using a decision table'.	[8] [7]
7	a)	Explain the applications of RS and GIS in forestry.	[8]
	b)	What are the applications of RS and GIS in urban areas? Explain.	[7]
8	a)	What are the applications of RS and GIS in flood zone delineation? Explain.	[8]
	b)	How can RS and GIS be applied for reservoir storage estimation? Explain.	[7]



Set No. 1