

Code No: **R41014** 

Time: 3 hours

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## **R10**

Set No. 1

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

## (Civil Engineering)

Max. Marks: 75

## Answer any Five Questions All Questions carry equal marks

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1	a) b)	What do you understand by 'Remote sensing'? Explain the basic components of remote sensing. Explain wave mode of Electromagnetic radiation.	[8] [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)	What is 'Geographical data analysis'? Why is it required? What are the various geospatial analysis techniques?	[8]
	b)	Explain 'Overlay using a decision table'.	[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]

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