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Roll No.

## 320637(20)

## B. E. (Sixth Semester) Examination, 2020

(Old Scheme)

(Civil Engg.)

## **GIS & its APPLICATIONS**

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) from each question is compulsory.

Attempt any two parts from parts (b), (c) and (d) of each question.

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## Unit-I

1. (a) Define GIS.

2

(b) What are the key components of GIS?

7

[3]
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	[2]	
	(c) What are the different types of data products?	7
	(d) Explain the different levels of measurements used in GIS.	7
	Unit-II	
2.	(a) Define satellite data.	2
	(b) Explain various functions of DBMS, in GIS.	7
	(c) Describe different modes of input data in GIS	7
	(d) Describe the advantages and disadvantages of Vector	
	and Raster data. All Alexand and and and another data.	7
	Unit-III	
3.	(a) Define DBMS.	2
	(b) Explain how spatial and non-spatial data are linked	
	in GIS. 160 and a zeroa, 16 mes to the Action	7
	(c) Give a brief account of smart features of DBMS.	7
	(d) What are the advantages and limitations of data	-
	overlay and modelling?	7
	Unit-IV	

4.	(a)	Name any four GIS software.			
	(b)	Discuss in detail the GIS application in water resources management.	ā		
	(c)	Discuss in detail the GIS applications in land suitability anlysis.	7		
	(d)	Discuss in detail the GIS applications in agriculture and forestry.	7		
	Unit-V				
5.	(a)	Define data layer.	2		
	(b)	Describe, any one type of GIS analysis used for case study.	7		
	(c)	Citing any example. Explain how GIS is useful for handling land information system.	7		
	(d)	Draw a schematic draft for a GIS analysis.	7		