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HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)
IV B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH-2023
REMOTE SENSING AND GIS
(CE Branch)

Time: 3 hours   Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)
PART-A
Answer **all** the questions in Part-A (**5X2=10M**)

Q.No.		Questions	Marks	CO	KL
1.	a)	What are the characteristics of a sensor?	[2M]	1	1
	b)	What is meant by image processing?	[2M]	2	1
	c)	What are the key components of geographical information system?	[2M]	3	1
	d)	What is meant by buffering in spatial data analysis?	[2M]	4	1
	e)	State any four agricultural applications of remote sensing.	[2M]	5	1

PART-B

Answer One Question from each UNIT (5X10=50M)

Q.No.		Questions	Marks	CO	KL
		UNIT-I			
2.		What are the advantages and limitations of remote sensing system?	[10M]	1	1
		OR			
3.		Explain the image sensor systems classification.	[10M]	1	2
		UNIT-II			
4.		What is meant by preprocessing in image analysis, what are the different categories of preprocessing techniques explain them briefly.	[10M]	2	1
		OR			
5.		What is meant by image classification, what are the different approaches for performing image classification explain them briefly?	[10M]	2	1
		UNIT-III			
6.		Explain briefly about the classification of map projections.	[10M]	3	2
		OR			
7.		Explain briefly about the raster data structure in geographical information system.	[10M]	3	2
		UNIT-IV			
8.		What are the different geospatial data analysis methods briefly explain them.	[10M]	4	1
		OR			
9.		What is meant by an overlay operation, briefly explain about vector overlay and its types.	[10M]	4	1
		UNIT-V			
10.		Explain about the applications of remote sensing in agriculture.	[10M]	5	2
		OR			
11.		Explain about the applications of remote sensing in forestry.	[10M]	5	2

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