

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

IV B.TECH I SEMESTER END REGULAR EXAMINATIONS, NOV-2022
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-AAnswer **all** the questions in Part-A (5X2=10M)

Q.No.	Questions	Marks	CO	KL
1.	a) Define remote sensing,	[2M]	1	1
	b) State the objective of image enhancement in digital image processing.	[2M]	2	1
	c) What is meant by map projections?	[2M]	3	1
	d) What is meant by overlaying operation in spatial data analysis?	[2M]	4	1
	e) State any four ocean 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 essential components of an ideal remote sensing system explain them briefly.	[10M]	1	2
OR				
3.	Explain about the electromagnetic spectrum.	[10M]	1	2
UNIT-II				
4.	Explain briefly about the image processing techniques of satellite imageries.	[10M]	2	2
OR				
5.	What is meant by image enhancement, what are the different image enhancement techniques that are adopted in image analysis?	[10M]	2	3
UNIT-III				
6.	What is meant by geographical information system, what are its key components briefly explain them.	[10M]	3	2
OR				
7.	Explain briefly about the vector data structure in geographical information system.	[10M]	3	2
UNIT-IV				
8.	What is meant by network analysis and what are its different types in geospatial data.	[10M]	4	1
OR				
9.	Classify the geospatial data analysis methods.	[10M]	4	4
UNIT-V				
10.	Explain about the application of remote sensing in land cover and land use.	[10M]	5	3
OR				
11.	Explain about the applications of remote sensing in hydrological aspect.	[10M]	5	3
