24U271	(Pages: 2)	Name	:	
		Reg. No	) :	
	SECOND SEMESTER UG DEGREE E	EXAMINATION, AP	RIL 2	2025
	(FYUGP)			
	CC24UCSC2MN102 - INTRODUCT	TION TO DATA SCI	ENC	E
	(Computer Science - M	linor Course)		
	(2024 Admission -	Regular)		
Time: 2.0 I	lours			Maximum: 70 Marks
	Dout A (Short on such	avasticas)		Credit: 4
	Answer <i>all</i> questions. Each quest	stion carries 3 marks		
1 5 1		stion curres 5 marks.		
I. Expl	ain normal distribution.			[Level:2] [CO1]
2. Desc	ribe applications of Data Science.			[Level:2] [CO1]
3. Expl	ain applications of Diagnostic Data Analysis.			[Level:2] [CO1]
4. Expl	ain disadvantages of data science.			[Level:2] [CO1]
5. Disc	uss Multivariate graphical EDA.			[Level:2] [CO2]
6. Disc	uss Dispersion.			[Level:2] [CO2]
7. Dem	onstrate the concept of Heat map with examples.			[Level:3] [CO2]
8. Expl	ain Bayes' Theorem for naive bayes.			[Level:2] [CO4]
9. Expl	ain Types of Clustering.			[Level:2] [CO4]
10. Expl	ain how to choose the value of K for K-NN Algorith	hm?		[Level:2] [CO4]
				(Ceiling: 24 Marks)
	Part B (Paragraph quest	ions/Problem)		
	Answer <i>all</i> questions. Each questions.	stion carries 6 marks.		
11. Desc	ribe types of data.			[Level:2] [CO1]
12. Resta	ate in your own words the concept of PCA.			[Level:2] [CO3]
13. Illust	trate the concept of Data Integration.			[Level:2] [CO3]
14. Resta	ate in your own words the concept of Data Cleaning	ŗ.		[Level:2] [CO3]
15. Inter	pet Evaluation metrics in machine learning.			[Level:2] [CO4]
16. Desc	ribe Clustering.			[Level:2] [CO4]

17. Interpet applications of supervised learning.	[Level:2] [CO4]		
18. Describe Bias and Variance.	[Level:2] [CO4]		
	(Ceiling: 36 Marks)		
Part C (Essay questions)			
Answer any <i>one</i> question. The question carries 10 marks.			
19. Explain the concept of data transformation.	[Level:2] [CO3]		
20. Describe the concept of linear regression and its real-world applications.	[Level:2] [CO4]		
	(1 × 10 = 10 Marks)		

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