Total No. of Questions : 4]		o. of Questions : 4]	SEAT No. :	
PB-	11	10	[Total	No. of Pages : 2
[6269]-324				
T.E. (Artificial Intelligence and Data Science) (Insem)				
DATASCIENCE				
(2019 Pattern) (Semester - II) (317529)				
Time: 1 Hour] [Max. Marks: 30]				
Instr	uct	tions to the candidates:		
	1)	Answer Q.1 or Q.2, Q.3 or Q.4.	,60°	
	<i>2</i>)	Neat diagrams must be drawn wherever nec	essary.	
	<i>3</i>)	Figures to the right indicate full marks.	200	
	<i>4</i>)	Assume suitable data if necessary.		
		9. ²		
01)	٥)	What is Data Science? Explain its use in Al		[5]
<i>Q1</i>)	a)	What is Data Science? Explain its use in Al	*	[5]
	b)	Explain the various applications of Data Sc	ience.	[5]
c) Imagine you have given the data set with the Null or Nan value			values. Apply	
		data wrangling methods used in data science	ce.	[5]
		OR OR		
		000		C
Q2)				
		flipping coin.		[5]
	b)	Describe Bayes theorem in detail with an ex	cample.	[5]
	c) Explain Standard deviation and Inter Quartile range and write pythor			write nython
	<i>C)</i>	code to compute the standard deviation and		
		to compute the standard de valuon and		4
	4		0,0	
Q 3)	a) What is data Wrangling? Explain various methods of data wrangling. [5]			
	b)	Explain Data Cleaning, Data Transformation	n.	[5]
	c)	Explain Data Integration and Discretization	· 33	[5]
		OR	O *	
		Sp. V		
				<i>P.T.O.</i>

Q4) a) What is hypothesis testing? [5]
b) Explain different measures of dispersion. [5]
c) Solve the following. [5]

Suppose the probability of the weather being cloudy is 40%. Also suppose the probability of rain on a given day is 20%. Also suppose the probability of clouds on a rainy day is 85%. If it's cloudy outside on a given day, what is the probability that it will rain that day?