Tota	l No.	of Questions : 4] SEAT No. :
PB-	110	[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:		
Instructions to the condidates:		
	<i>1</i>)	Answer Q.1 or Q.2, Q.3 or Q.4.
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.
	<i>3</i>)	Figures to the right indicate full marks.
	<i>4</i>)	Figures to the right indicate full marks. Assume suitable data if necessary.
		9. V
Q 1)	a) (What is Data Science? Explain its use in AI [5]
L 1)		×′ · · · · · · · · · · · · · · · · · · ·
	b)	Explain the various applications of Data Science. [5]
	c)	Imagine you have given the data set with the Null or Nan values. Apply
		data wrangling methods used in data science. [5]
		OR OR
Q2)	a)	Explain null and alternative hypothesis by considering the example for a
		flipping coin.
	b)	Describe Bayes theorem in detail with an example. [5]
	c)	Explain Standard deviation and Inter Quartile range and write python
	- /	code to compute the standard deviation and interquartile range. [5]
<i>Q3</i>)	a)	What is data Wrangling? Explain various methods of data wrangling. [5]
	b)	Explain Data Cleaning, Data Transformation. [5]
	c)	Explain Data Integration and Discretization. [5]
		OR
		28°.

P.T.O.

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

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?

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