[6009]-424

T.E. (Artificial Intelligence & Data Science) (In sem)
DATA SCIENCE
(2019 Pattern) (Semester-II) (317529)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

1) *Solve questions Q.1 or Q.2, Q.3 or Q.4.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data necessary.*

Q1) a) Compare Business Intelligence Vs. Data Science. **[5]**

    b) List and explain data reduction techniques with example. **[5]**

    c) What is Data wrangling? Explain various methods of Data wrangling. **[5]**

OR

Q2) a) What is Data Science? Differentiate between Data Science and Information Science? **[5]**

    b) Describe Bayes theorem with an example. **[5]**

    c) Differentiate Structured and Unstructured Data. **[5]**

Q3) a) For the given numbers find out the variance and standard deviation.1, 2, 3, 4,5, 6. **[5]**

    b) Explain the use of hypothesis and hypothesis testing. **[5]**

    c) What is Data Integration and Discretization explain? **[5]**

OR

Q4) a) Define measures of central tendency and given the five annual salaries of an industry shown in Table, determine the mean and the median. **[5]**

Position	CEO	Manager	Developer	Tester	Custodian
Salary	$10,00,000	$55,000	$40,000	$30,000	$20,000

    b) What does the Pearson correlation coefficient test do explain with an example. **[5]**

    c) Explain Type I and Type II errors with an example. **[5]**

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