Total No. of Questions : 4]

SEAT No. :

PE-323

[Total No. of Pages : 1

[6580]-694
B.E. (AI & DS) (Insem.)
DATA MODELLING & VISUALIZATION
(2019 Pattern) (Semester - VII) (417522)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates :

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

Q1) a) Explain in detail Positive, negative and zero covariance with appropriate graphs. **[5]**

b) Explain Central Limit Theorem with example. **[5]**

c) Explain in Data Modeling Process. **[5]**

OR

Q2) a) Differentiate between Descriptive Statistics and Graphical Statistics. **[5]**

b) Explain model historical data in details. **[5]**

c) List discrete distributions and explain two discrete distributions. **[5]**

Q3) a) Define Poisson process. Explain Poisson distribution with example. **[5]**

b) Differentiate between Z-Test and T-Test. **[5]**

c) Explain the Bayesian Network with example. **[5]**

OR

Q4) a) Explain Autoregressive Moving Average (ARMA) Processes. **[5]**

b) Explain the Markov Model in Hidden States. **[5]**

c) Explanation of the Queuing system an illustration of Little's Law with a neat graph. **[5]**

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