

Total No. of Questions : 8]

SEAT No. :

P3333

[5461]-593

[Total No. of Pages : 2

B.E. (Computer Engineering)
DATAANALYTICS
(2015 Pattern) (Semester-I) 410243

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 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 Data Analytic Life cycle. [8]
b) When do we use Wilcoxon rank-sum test? Write steps in the test. [6]
c) Explain linear regression with example. [6]

OR

- Q2)** a) Compare BI Vs.Data science. [6]
b) Explain k-means clustering algorithm.What are its drawbacks? [7]
c) Explain Apriori association rule mining algorithm. [7]

- Q3)** a) Explain Bayes 'theorem.Explain Naive Bayes' classifier. [8]
b) Explain any three of classification performance measures. [6]
c) What is classification? List the different classifiers. [3]

OR

- Q4)** a) What is decision tree? Explain how decision tree is constructed using ID3 algorithm. [8]
b) Explain the following: [3]
i) Conditional probability.
ii) Posterior probability.
c) Explain the following with their significance: [6]
i) Entropy
ii) Information gain
iii) Gain ratio

P.T.O.

- Q5)** a) What is data visualization? Explain any four data visualization Techniques [9]
- b) What are the challenges in Big data visualization? [8]

OR

- Q6)** a) Explain how data is visualization is done or visually represented, if data is 1-D, if data 2-D and data is 3-Dimensional? [6]
- b) Explain Big data visualization tools in short (any four tools). [8]
- c) Explain analytical techniques used in Big data visualization. [3]
- Q7)** a) Explain use cases for analytics for unstructured data. [5]
- b) Explain MapReduce paradigm with example. [6]
- c) Explain Hadoop Distributed File System. [5]

OR

- Q8)** a) Explain the Hadoop Ecosystem in detail with Pig, Hive, HBase and Mahout. [8]
- b) Give a brief review of the key outputs for each of the main any four stakeholders of an analytics project. [4]
- c) What are four major categories of NOSQL Tools (stores)? [4]

