

Total No. of Questions : 5]

SEAT No. :

PD-1440

[Total No. of Pages : 2

[6441] - 506
S.Y. B.B.A. (CA)
CA-305: BIG DATA
(2019 Pattern) (CBCS) (Semester-III)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to right indicate marks.*

Q1) Attempt any Eight of the following :

[8 × 2 = 16]

- a) What are the five's of big data?
- b) What is unsupervised learning?
- c) What is regression?
- d) What is sample?
- e) What is pipe operator?
- f) What is the statistical inference?
- g) Enlist stages of Data Science.
- h) What is digital data?
- i) What is probability?
- j) What is R?

P.T.O.

Q2) Attempt any FOUR of the following : **[4 × 4 = 16]**

- a) Explain the life cycle of data analytics.
- b) Explain probability distribution modeling.
- c) Describe Association rule for mining.
- d) Explain Apriori algorithm.
- e) Explain K-means of clustering algorithm.

Q3) Attempt any FOUR of the following : **[4 × 4 = 16]**

- a) Explain correlation with its type.
- b) Explain tools used in big data.
- c) Explain the steps in Machine Learning.
- d) Explain SVM algorithm in detail.
- e) Differentiate between unstructured digital data and semi structured digital data.

Q4) Attempt any FOUR of the following : **[4 × 4 = 16]**

- a) How Naive Bayes algorithm works.
- b) Explain applications of big data in E- Commerce
- c) Write an R program to calculate binary into decimal of a given vector.
- d) Write an R program to find sum, mean and product of a vector.
- e) Write an R program to find maximum and minimum value of a given vector.

Q5) Write a short note on Any TWO of the following : **[2 × 3 = 6]**

- a) Data Manipulation.
- b) Packages in R.
- c) Loops in R

