

Total No. of Questions : 5]

SEAT No. :

PC1159

[6317]-106

[Total No. of Pages : 2

S.Y.B.B.A. (Computer Application)

CA-305 : BIG DATA

(2019 Pattern) (Semester-III)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right side indicate full marks.

Q1) Attempt any Eight of the following.

[16]

- a) What is big data?
- b) What is Apriori algorithm?
- c) Enlist data types in R?
- d) Enlist the stages of data science?
- e) Define EM algorithm.
- f) Define SVM?
- g) What is Machine Learning? Enlist type of Machine Learning.
- h) Define market basket analysis
- i) What is Sample and Population?

Q2) Attempt any FOUR of the following.

[16]

- a) Explain different types of data analytics.
- b) Give advantages and Disadvantages of Machine Learning.
- c) Explain Correlation with its type.
- d) Explain functions included in “dplyr” package.
- e) Explain applications of big data.

P.T.O.

Q3) Attempt any FOUR of the following. **[16]**

- a) What is histogram? Explain with example in R.
- b) Explain Data frame with example.
- c) Explain types of regression models.
- d) What is digital data? Explain its type.
- e) Explain Naive Bayes with the help of example.

Q4) Attempt any FOUR of the following. **[16]**

- a) Explain Association rule mining.
- b) Write an R program to find out number is positive or negative.
- c) Write an R program to find the maximum and the minimum value of a given vector.
- d) Write an R Program to print Multiplication Table of 2.
- e) Write a R program accept any year as input and check whether the year is a leap year or not.

Q5) Write a short note on Any TWO of the following. **[6]**

- a) Tools used in Big Data.
- b) Loops in R.
- c) Applications of Machine Learning.

