Total No. of Questions :5]

SEAT No.:

P1311

[Total No. of Pages : 3

[6055]-404 T.Y. B.Sc.

COMPUTER SCIENCE

CS-364: Data Analytics

(2019 Pattern) (Semester - VI) (CBCS)

Time: 2 Hours]

[Max. Marks: 35

Instructions to the candidates:

- 1) Figures to the right indicate full marks.
- 2) All questions are compulsory.
- Q1) Attempt any EIGHT of the following.

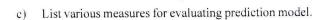
 $8 \times 1 = 8$

- a) What is the apriori Property?
- b) What is Bag of words?
- c) What is sentiment Analysis?
- d) What is the purpose of AVC & ROC?
- e) State any 2 uses of Machine Learning.
- f) Define Logistic Regression.
- g) What is Deep Learning?
- h) What is Diagnostic Analytics?
- i) What is Atotificial Intelligence?
- j) In market basket Analysis. What will happen when minimum support is reduced?
- Q2) Attempt any Four of the following.

 $4 \times 2 = 81$

- a) What is Text Summarization?
- b) What are frequent itemset? Explain with example.

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- d) What is Classification?
- e) In Regression what is dependent and independent variables?
- Q3) Attempt any Two of the following.

 $[2\times 4=8]$

a) Consider the following dataset. Apply Apriori algorithm to generate frequent pattern for given transactional database (Minsup=0.5)

Tid	Items
T1001	Ghee, Butter milk, Milk
T1002	Ghee, Butter milk
T1003	Ghee, Curd, Cheese
T1004	Cheese, Curd
T1005	Cheese, Milk
T1006	Ghee, Curd, Cheese

- b) What is stemming & lemmatization? Give example.
- c) Explain various types of Data Analytics.
- Q4) Attempt any Two of the following.

 $[2 \times 4 = 8]$

- a) Explain seven layers of Social Media Analytics:
- b) Define Accuracy, Precision, Recall & specificity
- c) Explain types of machine Learning techniques with example.

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- a) Define Lift, support & confidence.
- b) What is confusion Matrix? Explain with example.

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