Total No. of Questions : 5]

SEAT No. :

P5160

[Total No. of Pages : 2

[5823] - 604
T.Y.B.Sc.
COMPUTER SCIENCE
CS-364 : Data Analytics
(CBCS 2019 Pattern) (Semester -VI)

Time : 2 Hours] *[Max. Marks : 35*

Instructions to the candidates:

1) *Figures to the right indicate full marks.*
2) *All questions are necessary.*
3) *Neat diagrams must be drawn wherever necessary.*

Q1) Attempt any EIGHT of the following : **[8×1=8]**

a) Define Data Analytics.

b) Define Tokenization.

c) Define Machine Learning.

d) What is clustering?

e) What is Frequent Itemset?

f) What is data characterization?

g) What is outlier?

h) What is Bag of words?

i) What is Text Analytics?

j) Define Trend Analytics?

Q2) Attempt any FOUR of the following : **[4×2=8]**

a) What is confusion matrix?

b) Define support and confidence in association rule mining.

c) Explain any two Machine Learning (ML) Applications.

d) Write a short note on stop words.

e) Define supervise Learning and unsupervise Learning.

P.T.O.

Q3) Attempt any Two of the following : **[2×4=8]**

a) What is prediction? Explain any one regression model in detail.

b) Differentiate between Stemming and Lemmatization.

c) Describe types of Data Analytics.

Q4) Attempt any TWO of the following : **[2×4=8]**

a) Consider the following transactional database and find out Frequent Itemsets using Apriori algorithm with minimum support count=2

TID	List _ of _ Item_IDs
T_1	I_1, I_2, I_5
T_2	I_2, I_4
T_3	I_2, I_3
T_4	I_1, I_2, I_4
T_5	I_1, I_3
T_6	I_2, I_3
T_7	I_1, I_3
T_8	I_1, I_2, I_3, I_5
T_9	I_1, I_2, I_3

b) Which are the challenges in social media analytics?

c) Explain Reinforcement learning.

Q5) Attempt any ONE of the following : **[1×3=3]**

a) Write a short note on support vector machine.

b) Explain life cycle of Data Analytics.

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