

Total No. of Questions : 5]

SEAT No. :

P6401

[Total No. of Pages : 2

[6155]-64
T.Y. B.Sc.
COMPUTER SCIENCE
CS-364 : Data Analytics
(CBCS Rev 2019 Pattern) (Semester
- VI)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

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

Q1) Attempt any Eight of the following.

[8×1=8]

- a) State occam's razor principle.
- b) Define Data Analytics
- c) What is supervise learning?
- d) What is TF-IDF?
- e) What is frequent itemset?
- f) Define stemming.
- g) What is Link prediction?
- h) State Applications of AI.
- i) State types of logistic regression.
- j) Define precision

Q2) Attempt any four of the following:

[4×2=8]

- a) State types of Machine learning. Explain any one in detail.
- b) How Receiver operating characteristic (ROC) curve is created?
- c) What is association rule? Give one example.
- d) What is Influence Maximization?
- e) Explain Knowledge discovery in database (KDD) process.

P.T.O.

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

- a) Write a short note on community detection.
- b) Explain Apriori algorithm.
- c) Short note on challenges in social Media Analytics (SMA)

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

- a) Explain phases in Natural language processing (NLP).
- b) Explain exploratory data analytics.
- c) Explain life cycle of social media Analytics.

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

- a) Consider the following transactional database and find out Frequent Itemsets using Apriori algorithm with minimum - support = 50%

TID	Items - Purchased
T ₁	I ₁ , I ₂ , I ₃ ,
T ₂	I ₂ , I ₃ , I ₄
T ₃	I ₄ , I ₅
T ₄	I ₁ , I ₂ , I ₄
T ₅	I ₁ , I ₂ , I ₃ , I ₅
T ₆	I ₁ , I ₂ , I ₃ , I ₄

- b) Write a short note on Text analytics.

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