Total No. of Questions : 5]

SEAT No. :

PE-1522

[Total No. of Pages : 2

[6502]-604
T.Y. B.Sc. (Computer Science)
CS-364 : DATA ANALYTICS
(Rev. 2019) (Semester - VI)

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

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***
3) ***Total No. of quetions are five.***

Q1) Attempt any EIGHT of the following. (Out of Ten) **[8 × 1 = 8]**

a) Define the term classifier.

b) Logistic Regression is used for solving classification problems. Comment.

c) List the applications of NLP.

d) What is the purpose of AOC-ROC curve.

e) What is the purpose of KNN algorithm.

f) What is expert finding?

g) What is the purpose of Apriori Algorithm.

h) What is maximal itemsets?

i) What is n-gram?

j) What is the role of machine learning algorithms in data analytics?

Q2) Attempt any FOUR of the following. (Out of Five) **[4 × 2 = 8]**

a) Differentiate between prescriptive & predictive data analytics?

b) Explain in detail : Social Media analytics.

c) Explain the concept of sentiment analysis.

d) Write a short note on stop words.

e) What is Tokenization? How to use it in NLP? Explain in detail.

P.T.O.

SPPUQuestionPapers.com

Q3) Attempt any TWO of the following. (Out of Three) **[2 × 4 = 8]**

a) Explain in detail : Market Basket Analysis.

b) Explain any four techniques of clustering in detail.

c) What is analytics? Explain the types with example.

Q4) Attempt any TWO of the following. (Out of Three) **[2 × 4 = 8]**

a) What is classification? Explain its types.

b) Differentiate between Associations and correlations.

c) Write a short note on NLP.

Q5) Attempt any ONE of the following. (Out of Two) **[1 × 3 = 3]**

a) Consider following database and compute the frequent item sets using Apriori algorithm with minimum support count as 2

Transaction	Items Purchased
T1	{hairoil, shampoo, lotion}
T2	{shampoo, hairoil, scrub}
T3	{Shampoo, lotion, cream}
T4	{hairoil, cream}
T5	{Shampoo, cream, scrub}

b) What is text analytics? Describe its steps diagramatically, advantages, disadvantages and applications.

SPPUQuestionPapers.com