

**S.Y. B. SC. (Computer Science) SEM –IV (CBCS - 2016 COURSE) :
WINTER - 2018**

SUBJECT :DATA WAREHOUSING & DATA MINING -II

Day : Wednesday
Date : 24/10/2018

W-2018-0927

Time : 03.00 PM TO 06.00 PM
Max. Marks :60

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Answer **ANY TWO** of the following: (12)

- a) Explain stages of Knowledge Discovery within Database with the help of suitable diagram.
- b) Explain data mining tasks.
- c) Discuss data mining applications in business and E commerce.

Q.2 Answer **ANY TWO** of the following: (12)

- a) Draw and explain architecture of typical data mining system.
- b) Explain data mining issues.
- c) Explain association rule mining.

Q.3 Answer **ANY TWO** of the following: (12)

- a) Explain Bayes theorem.
- b) Discuss following terms:
i)Accuracy ii)Confusion matrix
- c) Explain clustering method with suitable example.

Q.4 Answer **ANY THREE** of the following: (12)

- a) Compare classification with clustering.
- b) Write a short note on data mining metrics.
- c) Explain types of regression.
- d) What is frequent item set? Give one example of frequent item set.

Q.5 Answer **ANY FOUR** of the following: (12)

- a) State different applications of clustering.
- b) Discuss data mining application for fraud detection in banking industries.
- c) Write a short note on machine learning.
- d) What is support and confidence? Give one example for the same.
- e) State advantages and disadvantages of Apriori algorithm.
- f) What is decision tree learning? Give one example for decision tree learning.

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