ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE- 27

M.Sc. (COMPUTER SCIENCE) - III SEMESTER

Supplementary Examination: October 2019
CS9115: DATA MINING AND DATA WAREHOUSING

Time: 2.5Hrs   **Max Marks: 70**

This question paper contains ONE page and One Part

(Please attach the question paper along with the answer script)
PART A

Answer any SEVEN of the following.   **10x7 = 70**

1. a) Present an example where data mining is crucial to the success of business.   (4)
    b) What data mining functions does the business need?   (6)

2. a) What makes a pattern interesting?   (4)
    b) Discuss any three major issues involved in data mining.   (6)

3. a) Explain how Apriori algorithm is used for mining Frequent Item sets.   (10)

4. a) What is the difference between Classification and Prediction functions.   (2)
    b) Briefly outline the major steps of Decision Tree Classification.   (8)

5. a) How clustering is different from Classification? Give example.   (3)
    b) Explain Agglomerative and Divisive Hierarchical clustering methods.   (7)

6. a) Illustrate K-means clustering algorithm using your own example.   (10)

7. a) Name the methods used to remove noise in the data cleaning process.   (3)
    b) Explain the process of building the Data Warehouse.   (7)

8. How to map a Data Warehouse to a multiprocessor architecture? Explain.   (10)

9. a) What is a Concept Hierarchy? Give example.   (4)
    b) Discuss the operations of OLAP in the multidimensional data model.   (6)

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