C.U.SHAH UNIVERSITY
Summer Examination-2017

Subject Name : Data Warehousing and Data Mining

Subject Code : 5CS02WWM1   **Branch: M.Sc.IT (WebTech)**

Semester : 2   **Date : 06/05/2017**   **Time : 02:00 To 05:00**   **Marks : 70**

Instructions:
(1) Use of Programmable calculator and any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

SECTION – I

Q-1   **Attempt the Following questions**   **(07)**

    a. Define the term: Data Mart
    b. What is the full form of OLTP?
    c. What is the roll of Data mining in business industry?
    d. What do you meant by Operational System?
    e. What is WEKA?
    f. What is the roll of point estimation in data warehousing?
    g. What is association rule?

Q-2   **Attempt all questions**
    (a) Discuss various characteristics of Data Warehousing   **(5)**
    (b) Explain various components of Data Warehousing   **(5)**
    (c) Differentiate Data Warehousing and Data Mart   **(4)**

<div align="center">OR</div>

Q-2   **Attempt all questions**
    (a) Discuss Data Warehouse 3-Tire architecture   **(5)**
    (b) Explain Data understanding in Data mining process   **(5)**
    (c) Describe MOLAP with advantages and disadvantages   **(4)**

Q-3   **Attempt all questions**
    (a) Discuss Extraction of Data in ETL process   **(5)**
    (b) Explain Data Preparation in Data mining process   **(5)**
    (c) Explain ROLAP with advantages and disadvantages   **(4)**

<div align="center">OR</div>

Q-3   **Attempt all questions**
(a) Discuss Decision Tree used in data mining   **(5)**
(b) Explain Agglomerative algorithm   **(5)**
(c) Write a note on: Clustering in Data mining   **(4)**

SECTION – II

Q-4   **Attempt the Following questions**   **(07)**

    a. What is the roll of DSS in Business Organization?
    b. Justify the statement "Data warehouse is Non-Volatile"?
    c. What is the full form of CRISP-DM?
    d. What is the full form of OLAP?
    e. What is the use of mutation function in GA?
    f. What is Machine learning?
    g. What is the roll of hypothesis testing in Data mining?

Q-5   **Attempt all questions**
(a) Explain Correlation and Describe how to implement linear correlation in WEKA   **(5)**
(b) Explain Deployment of Data model   **(5)**
(c) Differentiate between OLAP and OLTP   **(4)**

OR

Q-5   **Attempt all questions**   **(5)**
(a) Explain Transformation of data in ETL Process
(b) Discuss partitioning algorithm   **(5)**
(c) Describe various usage of Data mart in business industry   **(4)**

Q-6   **Attempt all questions**
(a) Explain Process in WEKA Explorer   **(7)**
(b) Describe Cluster in WEKA Explorer   **(7)**

OR

Q-6   **Attempt all Questions**
(a) Describe Genetic algorithm in detail   **(7)**
(b) Discuss Apriori algorithm in detail   **(7)**