

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination – 2018

Subject Name : Data Warehousing and Data Mining

Subject Code : 5CS02WWM1

Branch: M.Sc.IT (WebTech)

Semester : 2

Date : 27/04/2018

Time : 10:30 To 01:30

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.
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SECTION – I

Q-1 Attempt the Following questions: (7)

- a. What do you meant by OLTP?
- b. What is the role of data cube in OLAP technology?
- c. What is ETL?
- d. What is the role of DSS in decision making?
- e. What is the role of WEKA in data mining and data warehousing?
- f. What do you mean by operational system?
- g. Define the term: Data Mart.

Q-2 Attempt all questions:

- (a) Explain Data warehouse system architecture. (5)
- (b) Explain MOLAP with advantages and disadvantages. (5)
- (c) Differentiate Data warehouse and Data Mart. (4)

OR

Q-2 Attempt all questions:

- (a) Discuss various components of data warehouse Architecture. (5)
- (b) Discuss various characteristics of data warehouse. (5)
- (c) Differentiate OLTP and OLAP. (4)

Q-3 Attempt all questions:

- (a) Describe Data understanding phase of data mining model. (5)
- (b) Explain ROLAP with advantages and disadvantages. (5)
- (c) Explain Extraction of Data of ETL process. (4)

OR



- Q-3 Attempt all questions:**
- (a) Explain modeling phase of data mining model. (5)
 - (b) Discuss Transformation of Data in ETL Process. (5)
 - (c) Describe Decision Tree with suitable example. (4)

SECTION – II

- Q-4 Attempt the Following questions:** (7)
- a. Define the term: Data warehouse.
 - b. What is Data Mining?
 - c. What is the role of mutation function in apriori algorithm?
 - d. What do you meant by fitness function?
 - e. **List data mining techniques.**
 - f. Define the term: Cluster.
 - g. What do you meant by ETL?

- Q-5 Attempt all questions:**
- (a) **Explain hierarchical algorithm,** (5)
 - (b) **Explain Neural networks of data mining.** (5)
 - (c) Explain loading of data of ETL Process. (4)

OR

- Q-5 Attempt all questions:**
- (a) Explain WEKA Explorer in details (5)
 - (b) Explain Partitioning algorithm. (5)
 - (c) Explain Correlation and regression. (4)

- Q-6 Attempt all questions:**
- (a) Discuss Clustering with Agglomerative algorithm (5)
 - (b) Write a note on: WEKA (5)
 - (c) Discuss Association Rules (4)

OR

- Q-6 Attempt all Questions:**
- (a) Explain Apriori algorithm. (5)
 - (b) Explain Sampling algorithm. (5)
 - (c) Explain Machine learning. (4)

