

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name : Data Warehousing and Data Mining

Subject Code : 5CS02WWM1

Branch: M.Sc. IT (WebTech)

Semester : 2

Date : 30/04/2019

Time : 02:30 To 05:30

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** **(07)**

- a. What is OLTP System?
- b. What are the storage models of OLAP?
- c. What do you mean by association rule?
- d. List some applications of data mining
- e. What is machine learning?
- f. Define the term: data cube
- g. What is 2tier architecture?

Q-2 **Attempt all questions**

- (a) Discuss Decision Support System **(5)**
- (b) List and explain characteristics of data warehouse **(5)**
- (c) Discuss loading of data in ETL **(4)**

OR

Q-2 **Attempt all questions**

- (a) Discuss OLAP operations **(5)**
- (b) Explain three-tier data warehouse architecture **(5)**
- (c) Write a note on: Data mart **(4)**

Q-3 **Attempt all questions**

- (a) Discuss Extraction of Data in ETL process **(5)**
- (b) Explain business understanding in Data mining process **(5)**
- (c) Write a note on: HOLAP **(4)**

OR

Q-3 **Attempt all questions**



- (a) Explain how to analyze decision tree in WEKA (5)
- (b) Explain hierarchical clustering (5)
- (c) Write a note on: Cross over techniques (4)

SECTION – II

Q-4 Attempt the Following questions (07)

- a. Define the term: Data mining
- b. What is WEKA?
- c. What do you mean by interesting pattern?
- d. List out any two major strengths of decision tree
- e. List out various uses of data mart
- f. What is cluster?
- g. Define the term support and confidence

Q-5 Attempt all questions

- (a) Explain deployment of data mining model (5)
- (b) List and describe open source ETL Tools (5)
- (c) List out various differences between operational system and data warehousing system (4)

OR

Q-5 Attempt all questions

- (a) Describe basic steps to develop data warehouse (5)
- (b) Discuss evaluation of data mining model (5)
- (c) Write a note on: ANN (4)

Q-6 Attempt all questions

- (a) Explain preprocess in WEKA Explorer (7)
- (b) Explain classify in WEKA Explorer (7)

OR

Q-6 Attempt all Questions

- (a) Describe implementation of data set in WEKA with suitable example (7)
- (b) Discuss regression with suitable WEKA implementation (7)

