

M. SC. (Computer Science) SEM – III (Choice Based Credit & Grade System) : WINTER - 2018

SUBJECT : ELECTIVE : a) SOFT COMPUTING & DATA MINING

Day : Friday
Date : 26/10/2018

W-2018-1055

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 What is data warehouse? What is the need of data warehouse? Explain (15) architecture of data warehouse.

OR

What is support and confidence in association rule mining? What is the purpose of Apriori algorithm? State advantages of Apriori algorithm.

Q.2 A) Answer **ANY ONE** of the following (08)

- i) Explain steps involved in knowledge discovery.
- ii) Discuss OLAP operations.

Q.2 B) Answer **ANY ONE** of the following (07)

- i) Discuss applications of data mining.
- ii) Explain star schema and snowflake schema.

Q.3 Answer **ANY THREE** of the following (15)

- a) Discuss FP growth algorithm.
- b) Compare supervised learning with unsupervised learning.
- c) Why data preprocessing is required before loading data into a data warehouse?
- d) What are the different data mining issues?
- e) Explain web mining.

Q4. Write short notes on **ANY THREE** of the following (15)

- a) Text mining.
- b) Regression.
- c) Clustering.
- d) Data mart.
- e) Data mining technique - Classification

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