

S.D.E.

M.C.A. SEM - IV : SUMMER - 2018

SUBJECT : DATA WAREHOUSING & DATA MINING

Day : **Saturday**
Date : **02/06/2018**

S-2018-4621

Time : **02.00 P.M. TO 05.00 P.M.**
Max. Marks : 80

N.B.:

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section – II.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** Discuss different data warehouse schemas. [10]
- Q.2** Explain with suitable diagram and example of different OLAP operations. [10]
- Q.3** Explain methods used in data transformation and data reduction. [10]
- Q.4** What are the various forms of processing and visualizing the discovered patterns? [10]
- Q.5** Explain Frequency-Pattern (FP) tree algorithm. [10]
- Q.6** Explain K-means algorithm for clustering. [10]
- Q.7** Write short notes on **ANY TWO** of the following: [10]
- a) Rough sets
 - b) Feature selection
 - c) Association Rules

SECTION – II

- Q.8** Explain an algorithm for finding minimal subset with an example. [15]
- Q.9** Explain the application of Data Mining in Insurance sector. [15]
- Q.10** Given a decision tree you have a option of: [15]
- a) Converting the decision tree to rules and then pruning the resulting rules.
- OR**
- b) Pruning the decision tree and then converting the pruned tree to rules.
What advantages does (a) have over (b)?

* * * *