

(b) What is clustering ? What are the different categories of clustering methods ? Discuss. 8

9. Explain the following :

(a) Bayesian classification 8

(b) Spatial Data Mining 8

Roll No.

67172

**MCA 4th Semester (With New Notes)
Examination – May, 2018**

DATA WAREHOUSING & MINING (New)

Paper : MCA-402

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is compulsory. Apart from it, attempt four questions in all by selecting one question from each Unit. All questions carry equal marks.

1. (a) What is clean data ?
- (b) What are fact tables ?
- (c) What do you mean data cubes ?
- (d) What is MOLAP ?

- (e) What are data mining primitives ?
- (f) What is association rule mining ?
- (g) What is web mining ?
- (h) What are Grid-based methods ? $8 \times 2 = 16$

UNIT - I

2. (a) What do you mean by partitioning ? Why is it needed ? What strategies are used for the purpose ? Explain. 8
- (b) What is data warehouse (DWH) ? Why we need DWH ? What are its goals ? Discuss. 8
3. Explain the following :
 - (a) Data Mart 8
 - (b) DWH Architecture 8

UNIT - II

4. What do you understand by OLAP technology ? What are capabilities of OLAP ? What are different OLAP operations ? Illustrate with suitable examples. 16

5. What is ROLAP ? How do you compare it with HOLAP ? Discuss their pros and cons along with justification. 16

UNIT - III

6. (a) What do you mean by constraint-based association mining ? Illustrate its usefulness. 8
- (b) What is data mining ? Briefly describe the components of a data mining system. 8
7. (a) What is the concept of hierarchy generation ? How does it help ? Illustrate. 8
- (b) What are multi-dimensional association rules ? How these rules are mined from relational databases ? Explain. 8

UNIT - IV

8. (a) What do you understand by classification and prediction ? What is classification by decision induction ? Discuss its relevance. 8