

Roll No. : .....

Total No. of Questions : 11 ]

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# **BFMS-449**

**M.Sc. (Final) Examination, 2023**

**COMPUTER SCIENCE**

Paper - MCS-205 (A)

**(Data Warehouse Data Mining)**

*Time : 3 Hours ]*

*[ Maximum Marks : 50*

**Section-A**

**(Marks : 2 × 10 = 20)**

*Note :-* Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

**Section-B**

**(Marks : 3 × 5 = 15)**

*Note :-* Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

**Section-C**

**(Marks : 5 × 3 = 15)**

*Note :-* Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

**Section-A**

1. (i) What is Data Warehousing ?

(ii) Define OLAP.

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- (iii) What is data objects in Data Mining ?
- (iv) Define the type of attributes.
- (v) What is Holdout method ?
- (vi) Write the name of the various classification techniques.
- (vii) Define the Confidence.
- (viii) Define the FP growth algorithm.
- (ix) What is closed frequent itemset ?
- (x) What do you mean about Density Based Method ?

**Section-B**

2. What is need of Data Warehousing ?

*Or*

Explain the structure of Data Warehouse.

3. Explain the component of Data Warehouse.

*Or*

What is Meta Data ? Define with example.

4. Define the data quality and data mining task.

*Or*

Define the Data mining feature.

5. What is Boot strap ? Explain in brief.

*Or*

Why we use data mining when manage the long data ?

6. Write short notes on the following :

- (a) Maximal frequent itemset
- (b) Apriori principle
- (c) Cross validation

*Or*

Explain the cross validation with an example.

**Section-C**

- 7. Explain the dimensional modeling in detail.
- 8. What do you mean about data mining, its object and type of attributes ?
- 9. Specifying attributes test condition with example.
- 10. What are Association rules ? Explain in detail.
- 11. Differentiate between closed and maximal frequent itemset.