

17520

11920

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. (A) Attempt any THREE of the following :

3 × 4 = 12

- (i) Explain DSS users.
- (ii) Define Metadata. How it will be classified according to need of organization ?
- (iii) What is concept hierarchies ?
- (iv) Explain sequential mining.

(B) Attempt any ONE of the following :

1 × 6 = 6

- (i) Describe mining text databases.
- (ii) Describe Association Mining Rules.

2. Attempt any TWO of the following :

2 × 8 = 16

- (a) Explain Schemas for multidimensional databases.
- (b) Describe Apriori algorithm with example.
- (c) Explain with neat block diagram the need of data pre-processing and its techniques.

3. Attempt any FOUR of the following :

4 × 4 = 16

- (a) Describe data cleaning techniques.
- (b) What is classification and prediction ?
- (c) Define OLAP and why it is required for data warehousing.
- (d) Describe OLAP tools.
- (e) What is concept description ?

4. (A) Attempt any THREE of the following :

3 × 4 = 12

- (i) Give benefits of data warehousing.
- (ii) Describe OLAP operations.
- (iii) Describe constraint based association mining.
- (iv) Describe mining descriptive statistical measures in large databases.

(B) Attempt any ONE of the following :

1 × 6 = 6

- (i) Describe mining world wide web.
- (ii) Describe data reduction techniques in data warehouse.

5. Attempt any TWO of the following :

4 × 4 = 16

- (a) Explain the terms in detail
- (i) Data Integration
 - &
 - (ii) Data Transformation
- (b) Explain innovative techniques for knowledge discovery. Write application of three techniques.
- (c) What is the need of data warehousing and explain about operational and informational data.

6. Attempt any FOUR of the following :

4 × 4 = 16

- (a) Explain categories and classes of DSS.
 - (b) Describe Ingredients of DSS.
 - (c) Describe the method of summarization based on characterization.
 - (d) Describe Market basket analysis in association rule.
 - (e) Describe any four characteristics of data warehouse.
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