17520

15116

3 Hours / 100 Marks Seat No. | | | | | | | | |

Instructions : *(1)* ***All*** *questions are* ***compulsory****.*
(2) Answer ***each*** *next main question on a* ***new*** *page.*
(3) Figures to the ***right*** *indicate* ***full*** *marks.*
(4) Assume suitable data, ***if necessary****.*

Marks

1. a) Attempt **any three** of the following : **12**

a) Describe the need of datawarehousing.

b) Describe the role of metadata in datawarehouse.

c) Explain schema for star multidimensional database.

d) Explain concept description.

b) Attempt **any one** of the following : **6**

a) Describe various characteristic of datawarehouse.

b) Why there is need of preprocessing of data ?

2. Attempt **any two** of the following : **16**

a) Describe the method of handling missing value for data cleaning.

b) Describe schema for following multidimensional database :

1) Snowflake

2) Star join

c) Explain market basket analysis.

3. Answer **any four** of the following : **16**

a) Give brief introduction of decision support system.

b) Explain data integration in warehouse.

c) State the term mining which applied on world wide web.

d) Describe method of generalization based on characterization.

e) Describe the concept of hierarchy generation for numeric data.

P.T.O.

Marks

4. A) Attempt **any three** of the following : **12**

a) How does data reduction technique help to reduce size of data ?

b) Describe need for OLAP in warehouse.

c) Draw block diagram of datawarehouse architecture and state the function of each component.

d) Describe data cube aggregation strategy for data reduction technique.

B) Attempt **any one** of the following : **6**

a) Describe the Apriori algorithm.

b) Describe various categories of DSS.

5. Attempt **any two** of the following : **16**

a) Describe OLAP operation in multidimensional data model.

b) Explain the concept of constraint based association mining.

c) Explain application of knowledge discovery in fraud detection.

6. Attempt **any four** of the following : **16**

a) State association rule in data mining. Write application of each rule.

b) Define metadata and classify metadata into technical and business metadata.

c) State the meaning of mining text database.

d) Describe the concept of sequential mining.

e) Describe data classification by decision tree induction.
