17520

14115

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

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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. a) **Attempt any <u>THREE</u> of the following:** **12**

(i) Describe decision support system.

(ii) Explain why preprocessing data?

(iii) Describe multi dimentional data model.

(iv) What is concept description?

b) **Attempt any <u>ONE</u> of the following:** **6**

(i) Explain constraint based association mining.

(ii) Describe OLAP operations in the multi dimentional data models.

2. **Attempt any <u>TWO</u> of the following:** **16**

a) Describe discretization and concept hierarchy generation for numeric and categorial data.

b) Explain significant role of meta data with example.

c) Explain schemas for multi dimentional databases.

Marks

3. Attempt any <u>FOUR</u> of the following: **16**

a) Describe data classification process.

b) Explain sequential mining.

c) Describe need for OLAP.

d) Describe OLAP tools.

e) Explain benefits of data warehousing.

4. a) **Attempt any <u>THREE</u> of the following:** **12**

(i) How does data reduction technique helps to reduce size of data?

(ii) Describe concept hierarchies.

(iii) Explain association rule classification.

(iv) Describe data generalization.

b) **Attempt any <u>ONE</u> of the following:** **6**

(i) Describe mining world wide web.

(ii) Describe data cleaning techniques in data warehouse.

5. Attempt any <u>TWO</u> of the following: **16**

a) Explain innovative techniques for knowledge discovery, write applications of these techniques.

b) Describe Apriori algorithm.

c) Describe model management and user interface modes of DSS.

6. Attempt any <u>FOUR</u> of the following: **16**

a) Describe the needs of data warehousing.

b) Explain operational and informational data.

c) Describe mining descriptive statistical measures in large database.

d) Describe basket analysis in association rule.

e) Explain categories and classes of DSSs.
