

22621

21222

3 Hours / 70 Marks

Seat No.

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15 minutes extra for each hour

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

Marks

1. Attempt any FIVE of the following :

10

- (a) List data warehouse models with suitable examples.
- (b) List data cube computation methods.
- (c) Define the term data cube in multidimensional data model.
- (d) Define term Data Mining.
- (e) Describe Market Basket Analysis.
- (f) State usage of data warehousing.
- (g) Define OLAP with examples.

2. Attempt any THREE of the following :

12

- (a) Describe benefits of data warehousing.
- (b) Explain need of OLAP.
- (c) Explain in data warehouse design process.
- (d) Describe any two data cleaning methods.

- 3. Attempt any THREE of the following : 12**
- (a) Explain Data Warehouse usage for information processing.
 - (b) Explain bitmap index in OLAP.
 - (c) Explain a priori algorithm.
 - (d) Compare ROLAP versus MOLAP.
- 4. Attempt any THREE of the following : 12**
- (a) Compare operational database system and data warehouse.
 - (b) Explain the concept of snowflakes schema.
 - (c) Explain Join Indexing in OLAP.
 - (d) Explain in detail Knowledge Discovery of Database (KDD).
 - (e) Describe Cluster Analysis.
- 5. Attempt any TWO of the following : 12**
- (a) Describe Fact constellation schema with example.
 - (b) Explain top down and bottom up design approach of data warehouse.
 - (c) Explain frequent item sets mining methods.
- 6. Attempt any TWO of the following : 12**
- (a) Explain major tasks in data preprocessing.
 - (b) Explain finding frequent item sets using candidate generation.
 - (c) Explain various data objects and attributes types.
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