

22621

22232

3 Hours / 70 Marks

Seat No.

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- 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) 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) State any four Benefits of Data warehouse.
- (b) Define Data cube used in Data warehouse modeling.
- (c) Describe the term HOLAP.
- (d) Define the term Data mining.
- (e) Describe requirements of cluster analysis.
- (f) Explain role of OLAP queries with example.
- (g) Explain Rollup OLAP operation.

2. Attempt any THREE of the following :

12

- (a) Explain Metadat repository.
- (b) Explain following OLAP operation :
 - (i) Drill down
 - (ii) Slice
 - (iii) Dice
 - (iv) Pivot
- (c) Describe business framework for Data warehouse design.
- (d) Explain major issues of Data mining.



- 3. Attempt any THREE of the following : 12**
- (a) Explain any two Data warehouse models.
 - (b) Describe data objects & attribute type.
 - (c) Explain steps for generating association rule from frequent item sets.
 - (d) Differentiate between ROLAP & MOLAP.
- 4. Attempt any THREE of the following : 12**
- (a) Explain ETL process. (Extraction Transformation & Load).
 - (b) Explain need of OLAP.
 - (c) Explain OLAP data indexing with its type.
 - (d) Describe Data cleaning process.
 - (e) Explain Market Basket Analysis with example.
- 5. Attempt any TWO of the following : 12**
- (a) Explain Data warehouse design process.
 - (b) List & explain schema used in Data warehouse modeling.
 - (c) Explain Apriori Algorithm with examples.
- 6. Attempt any TWO of the following : 12**
- (a) Describe steps in the process of KDD.
 - (b) Explain cluster analysis with its application.
 - (c) Explain major tasks in Data Preprocessing.
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