22621

23124 3 Hours / 70 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) Assume suitable data, if necessary.

 Attempt any FIVE of the following : (a) Define Data warehouse. (b) Define Data cube. (c) Define Data cleaning and Data pre-processing. (d) Define Frequent Item set. (e) Explain data mining. (f) Enlist advantages of Bitmap indexing (any two). (g) Define ROLAP. 	
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(g) Define ROLAP.	
2. Attempt any THREE of the following :	12
(a) Explain Market Basket analysis with suitable example.	
(b) Differentiate between Data Warehouse & Data Mart.	
(c) Explain Data warehouse design process.	
(d) Distinguish between OLTP & OLAP.	
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- (c) Explain ETL process.
- Explain Data mining with its applications. (d)

4. Attempt any THREE of the following :

- (a) Explain KDD process.
- (b) Explain Apriori algorithm.
- (c) Explain Meta Data repository.
- (d) Explain Data warehouse implementation.

5. Attempt any TWO of the following :

- Explain different OLAP operations. (a)
- Draw and explain architecture of ROLAP and HOLAP. (b)
- Given the following data, apply the Apriori algorithm. Min support = 50% in (c) Database D.

TID	Items				
100	1	3	4		
200	2	3	5		
300	1	2	3	5	
400	2	5			

6. Attempt any TWO of the following :

- Explain Data cleaning process in detail. (a)
- Explain clustering & also explain the requirements for cluster analysis. (b)
- Explain any 3 attribute types used in data mining process. (c)

(a)

(b)

3.

12

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