M.E. Second Semester (Information Technology) (Full Time) (CGS)
13433 : Elective-II : Data Warehousing and Data Mining : 2 NMEF 5

P. Pages : 2
Time : Three Hours

AU - 3314
Max. Marks : 80

Notes : 1. Illustrate your answer necessary with the help of neat sketches.
2. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION – A

1. a) Explain the Information delivery component of data warehouse. 7

   b) Explain 6
   i) Integrated Data   ii) Time-variant-Data   iii) Data granularity.

OR

2. a) Explain, why do we need a separate staging area in data warehouse environment. 6

   b) Why is data cleaning and data transformation functions considered to be a vital task in integration process? Explain there functions. 7

3. a) Define and explain the importance of metadata in data warehouse. 6

   b) Explain star schema with relevant example. 7

OR

4. a) Explain three tier Architecture of Data warehouse. 6

   b) What are aggregate fact tables? Explain its need giving an example. 7

5. a) Explain, what are hyper cubes. 7

   b) What do you understand by surrogate keys? Why are they important in data warehouse environment. 7

OR

6. a) Explain what is meant by data clustering. 7

   b) Explain different models of OLAP? Differentiate between MOLAP and ROLAP. 7

SECTION – B

7. a) Explain classification and prediction. 6

   b) List and describe the primitives for specifying a data mining task. 7

OR

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8.	a)	Explain the Architecture of data mining system.	6
	b)	What is class/concept description? Also explain data characterization and discrimination.	7
9.	a)	What are itemsets? Explain closed itemset.	6
	b)	Explain generator of association rules from frequent itemset.	7

OR

10.	a)	Explain how apriori property is used in the algorithm.	6
	b)	What do you mean by constraint based mining? Explain.	7
11.	a)	Explain the criteria for comparing classification and prediction methods?	7
	b)	Explain Baye's theorem.	7

OR

| 12. | a) | Explain IF-THEN rules of classification. | 7 |
| | b) | Explain Rule pruning. | 7 |

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