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Total No. of Questions: 09]

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B.Tech. (Sem. - 7th / 8th)

### DATA WARE HOUSING AND DATA MINING

**SUBJECT CODE**: IT - 414 (Elective - II)

<u>Paper ID</u>: [A0533]

[Note: Please fill subject code and paper ID on OMR]

Time: 03 Hours Maximum Marks: 60

#### **Instruction to Candidates:**

- 1) Section A is Compulsory.
- 2) Attempt any Four questions from Section B.
- 3) Attempt any Two questions from Section C.

**Section - A** 

**Q**1)

 $(10 \times 2 = 20)$ 

- a) What are Facts, Dimensions and Measures in Data Warehouse.
- b) Comment on the statement in either true or false "Star Schema can have only one Fact table and multiple dimension tables".
- c) Comment on following statements in either true or false:
  - (i) Operational update of data does not occur in the data warehouse environment.
  - (ii) Date Warehouse does not require transaction processing, recovery, and concurrency control mechanisms.
- d) Differentiate operational Data Store (ODS) and Data Warehouse.
- e) Name at least 3 large IT giants which provide Data Warehousing solutions.
- Comment on the statement "Data Mining is just a synonym of reporting".
- g) Give at least 3 applications of Data Mining that you have seen around you in daily life.
- h) Discuss Market Basket Analysis as a Example of Data Mining.

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*P.T.O.* 

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- i) What is predictive modeling based data mining?
- j) Discuss Data Visualization and Hierarchical clustering as a Data Mining techniques.

### **Section - B**

 $(4 \times 5 = 20)$ 

- Q2) Discuss the Dependent Data Mart, Independent Data Mart and Federated Data Mart architectures of Data Warehouse, Compare each type with suitable diagrams.
- Q3) Discuss the Data Mining Process with suitable diagram, explain each component.
- Q4) Differentiate Star and Snow flake schemas of Data warehouse.
- Q5) (a) Give example of statistical techniques which can be used for prediction.
  - (b) What is association mining? Give example.
- Q6) (a) Discuss various application areas of Data Mining.
  - (b) List some of the analytical models used in Data Mining.

### Section - C

 $(2 \times 10 = 20)$ 

- Q7) (a) Discuss the process of E.C.T.L. with suitable diagram and examples of each stage.
  - (b) Multidimensional Databases Vs Relational Databases, How we can achieve multidimensional storage using relational databases.
- Q8) (a) Discuss Decision tree and Rule Induction as methods of Data Mining with examples.
  - (b) Discuss the terms: Supervised Learning, Unsupervised Learning, Semi Supervised Learning.
- (a) Write short note on:
  - Link analysis.
  - Data Mining is a process of Knowledge discovery.
  - (b) MOLAP Vs ROLAP.



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