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Total No. of Questions : 09]

[Total No. of Pages : 02

## Paper ID [A0533]

(Please fill this Paper ID in OMR Sheet)

**B.Tech. (Sem. - 7<sup>th</sup>/8<sup>th</sup>)**

**DATA WARE HOUSING & DATA MINING (IT - 414)**

**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

**Q1)**

**(10 × 2 = 20)**

- a) Write a brief note on origin and evolution of data warehouse.
- b) Discuss how data mining can realize the value of a data warehouse.
- c) Define an operational data store.
- d) Describe the function of a load manager.
- e) Explain the term Query Manager.
- f) What do you mean by online analytical processing.
- g) What are some of the problems associated with data warehousing.
- h) Discuss the management of data warehouse.
- i) Describe what is meant by association discovery.
- j) Define the term Data Mining.

### Section - B

**(4 × 5 = 20)**

**Q2)** What are the various merits and demerits of data warehousing?

**Q3)** Describe the features of ORACLE that support the core requirements of data warehousing.

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- Q4)** What are the applications of data mining? Explain different techniques of its implementation.
- Q5)** Discuss how data mining can realize the value of a data warehouse.
- Q6)** Describe the data mining of scientific data with suitable example.

**Section - C**

**(2 × 10 = 20)**

- Q7)** Describe the characteristics associated with each of the data mining operations:
- (a) Predictive Modelling.
  - (b) Data base segmentation.
  - (c) Link analysis.
  - (d) Deviation Detection.
- Q8)** Describe the architecture, characteristics & issues associated with each of the following categories of OLAP tools.
- (a) MOLAP.
  - (b) ROLAP.
  - (c) MQE.
- Q9)** Write short notes on the following:
- (a) Regression.
  - (b) Warehouse Environment.

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