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Total No. of Questions : 09]

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Paper ID [IT414]

(Please fill this Paper ID in OMR Sheet)

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

DATA WAREHOUSING & 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) What is meant by the term Data Mining?
- b) What is Load Manager? Explain in brief.
- c) What are the uses of multi dimensional view?
- d) Describe cold's rule for OLAP tools.
- e) Present a diagnostic representation of a data ware house architecture.
- f) What is meant by Online Analytical Processing?
- g) What is association discovery?
- h) Explain the term query manager?
- i) Discuss how data mining can realize the value of a data ware house.
- j) Describe the term MQE.

Section - B

(4 × 5 = 20)

Q2) Discuss the main benefits and problems associated with data ware housing.

Q3) Discuss the main terms associated with administration and management of a data ware house.

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- Q4)** Discuss how OLAP extensions to SQL can support data analysis and decision support applications.
- Q5)** Compare OLTP systems and data ware housing in a tabular manner.
- Q6)** Consider the university data-base system. Explain it in multi-dimensional system with a suitable diagram.

Section - C

(2 × 10 = 20)

- Q7)** Use the Nine-step methodology for data ware house design to produce a multi dimensional model for all parts of your organization.
- Q8)** Discuss the activities associated with each of the five primary data flows or processes within a data ware house?
- (a) In flow
 - (b) Out flow
 - (c) Up flow
 - (d) Meta flow
 - (e) Down flow
- Q9)** Describe OLAP applications and identify the characteristics of such applications.

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