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Total No. of Pages : 02

Total No. of Questions : 09

BMCI (2014 & Onwards) (Sem.-5) DATA WAREHOUSING & MINING Subject Code : BMCI-504 Paper ID : [74106]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- 1. Answer briefly :
 - a) Differentiate between operational and informational data stores.
 - b) What is multidimensional data? Give two examples.
 - c) What is OLAM?
 - d) Define Data Mining.
 - e) Briefly discuss the Snowflake schema.
 - f) Discuss Discovery driven cube.
 - g) What is a Decision Tree?
 - h) What is Apriori algorithm?
 - i) What are the different types of data used in cluster analysis?
 - j) What are the parameters for selecting and using the right data mining technique?

SECTION-B

- 2. Differentiate between OLAP and OLTP.
- 3. What do you mean by data pre-processing? Explain the various stages in the process of data pre-processing.
- 4. What is Attribute-oriented Induction? Describe how this is implemented.
- 5. What is Constraint based Association mining? What kinds of constraints can be used in mining?
- 6. Explain Data Visualization with reference to data mining.

SECTION-C

- 7. Define Data warehouse. Elaborate in detail the design and construction of data warehouses.
- 8. Suppose that a data warehouse consists of the four dimensions date, spectator, location and game and the two measures count and charge, where charge is the fare that a spectator pays when watching a game on a given date. Spectators may be students, adults or seniors, with each category having its own charge rate.
 - a) Draw a Star schema diagram for the data warehouse.
 - b) Starting with the base cuboid [date, spectator, location, game], what specific OLAP

operations should one perform in order to list the total charge paid by student spectators at GM_Place in 2015?

9. What is Clustering? Discuss the various clustering algorithms.