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Total No. of Pages : 02

Max. Marks: 60

Total No. of Questions : 09

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M.Sc.(IT) (2015 Onwards) (Sem.-4) DATA WAREHOSUING AND DATA MINING Subject Code : MSIT-404 Paper ID : [74116]

Time: 3 Hrs.

INSTRUCTIONS TO CANDIDATES :

- 1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students have to attempt any ONE question from each SECTION.
- 2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

- 1. What is a Data Warehouse? Lucidly explain the architecture of Data Warehouse.
- 2. What do you mean by Data Pre-processing? What are the operations in data preprocessing? Discuss each with example.

SECTION-B

- 3. Discuss the conceptual models for temporal data warehouse.
- 4. a) Explain temporality data types.
 - b) What are temporal measures?

SECTION-C

- 5. What is Data Mining? What are the different kinds of data that can be mined? Discuss with examples.
- 6. What is Back propagation? Explain classification using back propagation algorithm.

SECTION-D

- 7. What is Regression? What are the types of regression? Explain linear regression with an example.
- 8. What are the major clustering methods? Explain partitioning methods for clustering in detail.

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SECTION-E

9. Answer the following in brief :

- a) Differentiate between nominal, ordinal and ratio-scaled variables.
- b) What is Agglomerative clustering?
- c) What are binary variables?
- d) What is concept hierarchy?
- e) Explain online analytical processing.
- f) Explain spatial levels.
- g) State Bayes Theorem.
- h) Differentiate between ROLAP and MOLAP servers.
- www.FirstRanker.com i) What is Fuzzy set approach?
- i) What is rough set theory?