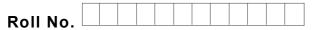
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MCA (2015 & Onward) (Sem.–6) DATA WAREHOUSING & MINING Subject Code : MCA-601 M.Code : 74755

Time : 3 Hrs.

Max. Marks : 60

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. Explain the different types of data warehouse models used in three-tier Data Warehouse Architecture.
- 2. What is spatial data warehouse? Explain the architecture for spatial systems.

SECTION-B

- 3. What is a temporal database? Explain fact relationships and measures for temporal data warehouse.
- 4. Explain the following :
 - a. Temporal hierarchies.
 - b. Temporal data types.

SECTION-C

- 5. What is back propagation? Write an algorithm for classification by back propagation.
- 6. How classification is performed using genetic algorithms and k-nearest neighbor? Explain.



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SECTION-D

- 7. How clustering can be performed by partitioning methods? Explain algorithms for kmeans and k-mediods partitioning methods.
- 8. How object dissimilarity can be computed for objects described by interval-scaled variables and binary variables? Explain.

SECTION-E

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9. Answer briefly :

- a. Define agglomerative hierarchical clustering.
- b. What is linear regression?
- c. Define Data warehouse models.
- d. Define Spatial Objects.
- e. Define Nominal Variables.
- f. Define Temporal Granularity.
- g. Discuss temporal support for levels.
- h. Discuss DBSCAN.
- i. What are genetic algorithms?
- j. What is bayes theorem?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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