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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:

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

SECTION-A

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

SECTION-B

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

SECTION-C

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

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SECTION-D

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

SECTION-E

Answer briefly :

- Define agglomerative hierarchical clustering.
- b. What is linear regression?
- Define Data warehouse models.
- Define Spatial Objects.
- e. Define Nominal Variables.
- Define Temporal Granularity.
- g. Discuss temporal support for levels.
- 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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