

**Code: 5P2B44**

M.C.A. IV Semester Supplementary Examinations Nov/Dec 2018

**Data Warehousing and Data Mining**

Max. Marks: 60

Time: 3 Hours

Answer all five units by choosing one question from each unit ( 5 x 12 = 60Marks )

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**UNIT-I**

1. Explain about the Multidimensional Data Model 12M

**OR**

2. a) Define the term Data Warehouse? Explain the Data Warehouse Architecture and its Implementation? 6M
- b) What is Data Mining? Describe the Data Mining Functionalities? 6M

**UNIT-II**

3. Explain the different methods for data cleaning and data integration? 12M

**OR**

4. Explain the various methods for concept hierarchy generation for numerical data? Generate a concept hierarchy using 3-4-5 rule with an example? 12M

**UNIT-III**

5. Explain the Multi-Level Association Rules from transaction Databases? 12M

**OR**

6. Discuss about Association rule mining? 12M

**UNIT-IV**

7. What are the different types of data used in cluster analysis? Explain in brief each one with an example? 12M

**OR**

8. a) Explain k-means clustering algorithm with suitable examples? 6M
- b) How does a Bayesian belief network learn? Explain. 6M

**UNIT-V**

9. Discuss the Multidimensional Analysis and Descriptive Mining of complex Data Objects? 12M

**OR**

10. a) Discuss the applications of data mining in telecom industry? 6M
- b) Explain about Multimedia Databases 6M

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**R-15**

**Code: 5P2B4D**

M.C.A. IV Semester Supplementary Examinations Nov/Dec 2018

**Distributed Databases**

Max. Marks: 60

Time: 3 Hours

Answer all five units by choosing one question from each unit ( 5 x 12 = 60Marks )

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**UNIT-I**

1. a) Define Distributed databases? Explain Data fragmentation? 6M
- b) Explain about Database Access primitives? 6M

**OR**

2. a) Explain about the Reference Architecture for Distributed Databases 6M
- b) Explain the features of Distributed Databases versus Centralized Databases 6M

**UNIT-II**

3. Explain about a Framework for Distributed Database Design. 12M

**OR**

4. Explain the concept of Distribution Transparency for update Applications? 12M

**UNIT-III**

5. Briefly explain about Join Queries and General Queries. 12M

**OR**

6. Explain the Concurrency Control for Distributed Transactions. 12M

**UNIT-IV**

7. Explain one scheme of distributed deadlock detection and recovery. 12M

**OR**

8. What are the basic concepts of Reliability? Explain about Non-blocking Commit Protocols. 12M

**UNIT-V**

9. Describe about Catalog Management in Distributed Databases. 12M

**OR**

10. Explain IBM's inter system communication 12M

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