

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SIXTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018

Course Code: IT 366

Course Name: ADVANCED DATABASE MANAGEMENT SYSTEMS (IT)

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks.

Marks

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|---|---|------|
| 1 | a) Define the concept of Autonomy. | (2) |
| | b) What are the issues for query processing in a distributed database? | (5) |
| | c) Illustrate the creation of persistent object by naming and reachability. | (8) |
| 2 | a) Explain the concept of a semi-join using an example. | (3) |
| | b) What are the advantages of distributed databases over conventional databases? | (4) |
| | c) Give detailed description of multi version two phase locking techniques for concurrency control. | (8) |
| 3 | a) Explain about horizontal fragmentation with example. | (5) |
| | b) Explain about OQL Queries with Database Entry Points and iterator variables with examples. | (10) |

PART B

Answer any two full questions, each carries 15 marks.

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|---|---|------|
| 4 | a) Explain about Web Database. | (7) |
| | b) What is pivoting technique in data warehouse? | (3) |
| | c) What are goals of Data Mining and Knowledge Discovery? | (5) |
| 5 | a) Give an overview of Three-tier Client-server architecture. | (5) |
| | b) Describe the working of FP-Growth algorithm, with example. | (10) |
| 6 | a) Discuss the various issues of mobile database. | (5) |
| | b) Explain about the data modelling for data warehouse. | (10) |

PART C

Answer any two full questions, each carries 20 marks.

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| 7 | a) Explain about the tuning of physical database design. | (15) |
| | b) Define Relationship Degree, Role Names, and Recursive Relationships with example. | (5) |

- 8 a) Explain the design and Implementation Issues for Active Databases. (10)
- b) Explain Participation Constraints and Existence Dependencies and Constraints on Relationship Type. (10)
- 9 a) Explain Boyce Codd Normal form. How it is different from third normal form? (10)
- b) Explain about active databases. (10)

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