SUBJECT CODE:- 8179
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E.(CSE) Examination Nov/Dec 2015
Advanced Database Mgt. System
(Revised)

[Time: Three Hours] **[Max. Marks: 80]**

"Please check whether you have got the right question paper."

N.B i) Solve any two questions from each section.
     ii) Assume suitable data, if necessary.

Section A

Q.1 a) Consider the process of opening a new account in the bank   12
        i)   Give high level picture of the workflow starting from the application procedure
        ii)   Give the work flow specification at each step
        iii) Indicate acceptable termination states and steps which involve manual intervention
    b) Explain in detail the parallel database architecture with neat diagram.   08

Q.2 a) What is a data fragmentation in distributed database. Explain the types of data fragmentation in detail.   10
    b) Explain the architecture of transaction server in detail   10

Q.3 a) What do you mean by I/O parallelism? What are various partitioning techniques explain in detail   10
    b) Discuss the semi join method for executing an equijoin of two files located at different site under what condition is   10
       an equijoin strategy efficient?

Section-B

Q.4 a) What is XML DTD? Explain the notations used in DTD.   08
    b) List the basic operations of the following built in interfaces of ODMG object model   08
        i)   Interator
        ii)   Set
        iii) collection
        iv)   Object
    c) Explain the handoff management in mobile database system.   04

Q.5 a) Discuss the various type constructors. How they are used to create complex object structures   08
    b) What do you mean by structured semi structured and unstructured data   08
    c) Explain the following terms.   04
        i)   Object identifier
        ii)   Atomic objects

Q.6 a) Explain the architecture of multimedia database management system   08
    b) Explain how XML data can be retrived using XPATH and XQUERY   08
    c) What are various object relational features of oracle.   04

K-2015

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