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**CODE NO:- Z-8023**

**FACULTY OF ENGINEERING**  
**M.E (CSE) Year Examination - June – 2015**  
**Advance Database Management System**  
**(Revised )**

[Time: Three Hours]

[Max. Marks:80]

“Please check whether you have got the right question paper.”

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

**SECTION-A**

- Q.1 a) What are the different activities to automate a workflow? Explain these for a loan processing application. 10
- b) What is a data fragmentation in distributed database .Explain the types of data fragmentation in detail. 10
- Q.2 a) What do you mean by TP monitors? Explain architecture of TP Monitors in detail. 10
- b) Explain the Distributed Query processing techniques in detail. 10
- Q.3 a) Explain in detail the parallel database architecture with neat diagram . 10
- b) Explain interquery and intraquery Parallelism in parallel Database . 10

**SECTION-B**

- Q.4 a) Discuss the various type Constructors. How they are Used to create complex object structures. 10
- b) What is the difference between data centric and document centric XML documents? 06
- c) What is the difference between XML schema and XML DTD? 04
- Q.5 a) Explain what the following terms mean in object –oriented database terminology 10
- i) Method
  - ii) Signature
  - iii) Message
  - iv) Collection
  - v) Extent
- b) Explain the hand off management in mobile database systems. 06
- c) Explain how X-query is used to retrieve data base from XML . 04
- Q.6 a) What is the difference between persistent and transient objects ?How is persistence handled in typical object oriented database system . 10
- b) Create a sample Library Relational database schema . Create XML schema document that corresponds to this database schema . 10