SUBJECT CODE NO:- P-8021
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E. (Comp.Sci.& Engg.) Examination May/June 2017
Advanced Database Mgt. System
(Revised)

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

Please check whether you have got the right question paper.
N.B   Solve any two questions from each section.

Section A

Q.1	A.	Is a high – performance transaction system necessarily a real – time system? Why or why not?	10
	B.	Explain how a TP – Monitor manages memory and processor resources more effectively than a typical operating system?	10

Q.2 A. Explain various partitioning techniques used in I/O parallelism. Which partitioning technique is suitable for following types of queries: 10
   a) Scanning entire relation,
   b) Point queries
   c) Range queries

   B. What do you mean by speed – up and scale – up? What is the importance of linearity in speed – up and scale – up? Explain with diagrams and examples.   10

Q.3 A. What is transparency feature of DDBM? Explain different types of distribution transparencies.   10
   B. Differentiate between distributed data fragmentation techniques.   10

Section B

Q.4 A. What are the differences and similarities of EXTENDS and interface":" inheritance?   10
   B. List the basic operations of the following built – in interfaces of the ODMG object Model: Object, Collection, Iterator, Set, List.   10

Q.5 A. What are the differences between structured, semi – structured, and unstructured data?   10
   B. What is the difference between data – centric and document – centric XML documents?   10

Q.6 A. Explain the effect of Mobility on data management with example.   10
   B. Explain various multimedia database applications.   10

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