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SUBJECT CODE NO:- H-1762
FACULTY OF SCIENCE AND TECHNOLOGY
M.E. (Comp. Sci. & Engg.)
Advanced Database Management System
(REVISED)

[Time: Three Hours]

[Max.Marks: 80]

N.B 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) Explain in detail the parallel database architecture with neat diagram. 10
- b) Explain transaction processing monitors in detail. 10
- Q.2 a) Explain data fragmentation and its types. 10
- b) Explain the architecture of transaction server in detail. 10
- Q.3 a) What do you mean by I/O parallelism? What are partitioning techniques explain in detail. 10
- b) What are the main software modules of DDBMS? Discuss the main functions of these modules in context to client server architecture. 10

Section B

- Q.4 a) List the basic operations of the following built in interfaces of the ODMG object model: 10
 object, collection, iterator, set and list.
- b) What is the difference between persistent and transient objects? How persistence is handled in 10
 typical OO database systems?
- Q.5 a) What is the difference between attributes and elements in XML? List some of the important 10
 attributes used to specify elements in XML schema.
- b) Discuss the various type constructors. How they are used to create complex object structures. 10
- Q.6 a) Explain various mobile transaction modals in detail. 10
- b) Explain MMDBMS architecture in detail. 10