

AE-820

M.Sc. (Previous)
Term End Examination, 2016-17

COMPUTER SCIENCE

Paper - VII

Advance Database Management System

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

Note : Answer any **five** questions. All questions carry equal marks.

1. (a) Explain data abstraction and data independence.
(b) Explain types of attributes in ER-Model.
2. (a) Explain Third normal form.
(b) Explain Armstrong axioms.
3. (a) Explain specialization and generalization.

(2)

- (b) Explain persistent programming languages.
 - 4. (a) Explain parallel query evaluation.
(b) Explain data fragmentation.
 - 5. (a) Explain Temporal database.
(b) Explain Spatial database.
 - 6. (a) Explain two phase locking with example.
(b) Explain storage of XML data with XML structure.
 - 7. (a) Explain log based recovery techniques.
(b) Explain Database Programming Languages.
 - 8. (a) Explain ARIES recovery algorithm.
(b) What is query processing and optimization ? Explain.
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