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 independance.

    (*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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