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Total No. of Questions: 5]

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Roll No

MCA-202 MCA. II Semester

Examination, December 2016

Data Base Management System

Time: Three Hours

Maximum Marks: 70

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- Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 - ii) All parts of each question are to be attempted at one place.
 - iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
 - iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

- 1. a) What are data models?
 - Differentiate between logical data independence and physical data independence.
 - Explain generalization and specialization.
 - d) Explain overall system architecture of DBMS.

OR

Explain reduction of ER schema to tables by taking example.

Unit - II

- 2. a) What is relational database?
 - b) What are foreign keys? Explain by taking examples.
 - c) Explain primary key, candidate keys, Alternate keys.

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 d) Write syntax of SQL DDL statement. Also explain indexes and views and how they are created

OR

Explain various types of join.

Unit - III

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- 3. a) What is non loss decomposition?
 - b) Explain what are functional dependencies.
 - c) What is Normalization? What are Normal Forms?
 - d) Compare 3NF and BCNF. Give an example where a relation is in 3NF but not in BCNF.

OR

What is join dependency? Explain fifth normal form.

Unit - IV

- 4. a) What are integrity rules?
 - Explain various transaction states.
 - c) What are check points? Explain its use.
 - d) Explain distributed databases. What are its advantages?

OF

Explain dead locks in database by taking examples.

Unit - V

- a) What are the advantages of Network Model over Hierarchical Model.
 - b) What is Data Warehousing?
 - Explain Object Oriented Databases.
 - d) Write a note on Data Mining.

OR

What is RAID storage? Explain.

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