



MC-3720

First Year B. C. A. (Sem. - II) Examination

September / October - 2013

Paper - 205 : Database Management System

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दृष्टवित्त निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
FIRST YEAR B. C. A. (SEM. - 2)	<input type="text"/>
Name of the Subject :	<input type="text"/>
P. - 205 : DATABASE MANAGEMENT SYSTEM	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/>	Section No. (1, 2,.....) : <input type="text" value="NIL"/>
	Student's Signature

- (2) Figures on the right indicate marks.
(3) Take assumption whenever necessary.

- 1 Answer the following : (any seven) 14
- (i) Define Domain.
 - (ii) What is the purpose of storage manager ?
 - (iii) Give the general form of Query.
 - (iv) Differentiate between schema and instance.
 - (v) Differentiate between trivial and non-trivial dependency.
 - (vi) Define functional dependency.
 - (vii) Define Boyce Code Normal Form.
 - (viii) Differentiate between Partial Key and Primary Key.
- 2 Answer following : (any three) 18
- (i) What are the advantages of DBMS ?
 - (ii) What is purpose of mapping cardinality ? Explain it with example.
 - (iii) Differentiate between the various types of keys with example.
 - (iv) Explain Object oriented model.

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[Contd...

- 3** Answer following : (any three) **21**
- (i) Explain types of relationship set with an E-R Diagram.
 - (ii) What is normalization ? Explain upto 3rd normal form with an example.
 - (iii) What is DBA ? Explain the responsibilities of DBA.
 - (iv) What is join ? Explain various types of joins with an example.
- 4** Draw E-R Diagram for school management system. **5**
- OR**
- Draw E-R diagram for library management system. **5**
- 5** Consider the employee data. Give an expression in SQL **12**
for the following query.
- EMP (empno, ename, jobtitle, managerno, hiredate, sal, comm, deptno)
DEPT (deptno, dname, loc)
- (i) Create tables and give proper constraints.
 - (ii) Find the Employees working in the department 10, 20, 30 only.
 - (iii) Find Employees whose names start with letter A or letter a.
 - (iv) Find the Employees who are working in Smith's department.
 - (v) Find the Employees who get salary more than Allen's salary.
 - (vi) Display employees who are getting maximum salary in each department.
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