



K-3720

First Year B. C. A. (Sem. - II) Examination
October/ November - 2012
Paper - 205 : Database Management System

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशविध निशानीवाणी विगते उत्तरवही पर अवश्य ब्रजवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
FIRST YEAR B. C. A. (SEM. - 2)

Name of the Subject :
205 : DATABASE MANAGEMENT SYSTEM

Subject Code No. : **3 7 2 0** Section No. (1, 2,.....) : **NIL**

Seat No. :

Student's Signature

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

1) Answer following (any seven)

14

- (1) What is the use of Canonical Cover during normalization?
- (2) What is tuple?
- (3) Define functional dependency.
- (4) What do you understand by 'Logical data independence'?
- (5) What is weak entity set?
- (6) State difference between delete and drop.
- (7) What is SQL, and why it is important?
- (8) What do you understand by data type memo?

2) Answer following (any three)

18

- (1) Discuss the disadvantage of file processing.
- (2) What is normalization explain BCNF and compare how it is better than Third Normal Form?
- (3) Explain the binary relationship set and ternary relationship set with an E-R Diagram.
- (4) What are the levels of data abstraction? Mention their features.

3) Answer following (any three)

15

- (1) What are the difference between the DBMS and file-processing systems?
- (2) Explain Object-oriented model
- (3) List the responsibilities-functions of database manager?
- (4) Explain the types of Database Users.

4) Answer following (any four)

12

- (1) What is meant by 'instances and schemas'? What are the types of schemas?
- (2) What is 'data manipulation'?
- (3) What is Total Participation
- (4) What is Domain Integrity
- (5) Give the list of various types of joins

5) (a) Write SQL Statement to create these tables

3

Emp(emp_id,name,city,salary,post,dept_no,join_date)
Department(dept_no,dept_name,location)
Skill(emp_id,skill)

(b) Solve the following queries

8

- i) List the employee details that are from "ahmedabad" or baroda"
- ii) Count the no. of employees from "account: dept.
- iii) Display the information of employees having "typing" skill.
- iv) List the department name of employees whose join date is 21st of any month.

Student's Signature

Section No. (1-5) [] [] [] [] []

202: DATABASE MANAGEMENT SYSTEM

FIRST YEAR B. C. A. (SEM - 5)

14

- 1) Answer following (any seven)
- (1) What is the use of Canonical Cover during normalization?
 - (2) What is tuple?
 - (3) Define functional dependency.
 - (4) What do you understand by "local data independence"?
 - (5) What is weak entity set?
 - (6) State difference between delete and drop.
 - (7) What is SQL, and why it is important?
 - (8) What do you understand by data type memo?

18

- 2) Answer following (any three)
- (1) Discuss the disadvantage of file processing.
 - (2) What is normalization explain BCNF, and compare how it is better than Third Normal Form.
 - (3) Explain the binary relationship set and ternary relationship set with an E-R Diagram.
 - (4) What are the levels of data abstraction? Mention their features.

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- 3) Answer following (any three)
- (1) What are the difference between the DBMS and file-processing systems?
 - (2) Explain Object-oriented model.
 - (3) List the responsibilities/functions of database managers.
 - (4) Explain the types of Database Users.