

RB-3720

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

March / April - 2017

205 : Database Management System

Time : Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशावेष निशा-नीवाणी विगतो उत्तरवही पर अवश्य लभवी.
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**

Seal No. :

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Student's Signature

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

1 Answer following : (any seven)

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- (1) Explain *Like* operator in SQL.
- (2) List various DCL commands.
- (3) What is referential integrity ? How can we achieve it ?
- (4) How to reduce data redundancy ?
- (5) Explain prime and non-prime attributes.
- (6) Define Domain.
- (7) Define Data Dictionary.
- (8) What is the difference between ALTER and UPDATE command ?

2 Answer in detail : (any two)

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- (a) What is Normalization ? Explain need of normalization with an example.
- (b) What is functional dependency ? Explain full and partial functional dependency.
- (c) Explain Relational Model, Network Model and Hierarchical model.

- (a) Define DBMS. Explain advantages of DBMS.
- (b) Explain the concept of Aggregation.
- (c) Explain Entity and Entity sets. Differentiate between strong and weak entity set.
- (d) Explain Super key, Candidate key Primary key, and Composite key with appropriate example.

- 4 (a) Draw an E-R diagram for online library management system. 6
- (b) Explain attributes and discuss types of attributes. 6

OR

- (b) Explain DDL and DML in detail with appropriate constraints. 6
- 5 (a) Write SQL statement to create tables with appropriate constraints. 4

Students(RollNo, Name, DateofBirth)

Subjects(SubjectCode, SubjectName)

Result(RollNo, SubjectCode, Marks)

- (b) Solve following queries : (any four) 8
- (1) Display total number of students who passed in subject 'DBMS'.
 - (2) To add a column(field) 'Class' in table students.
 - (3) To display name of the students who failed in subject 'Advanced C programming'.
 - (4) To display student wise total number of marks scored.
 - (5) To display roll number of all the students who appeared in exam for the subject 'Introduction to Operating System'.