



G-3720

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

September / October - 2014

205 : Database Management System

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशावलि निशानीवाणी विगतो उत्तरवही पर अवश्य लपनी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
F. Y. 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) Figure on the right indicate marks.
(3) Take assumption whenever necessary.

Q.1 Answer the following : (any seven) 14

- Define DDL, DCL & DML commands.
- What is the difference between Drop Table and Truncate Table command?
- What is data independence?
- Define Data Dictionary.
- What do you mean by Disjoint & Overlapping constraint?
- What is the difference between Full Functional Dependency & Partial functional dependency?
- What do you mean by closure of a set of functional dependency?
- What is data manager? List responsibilities of data manager.

Q.2 Answer the following : (any three) 18

- Define Relationship & Relationship set. Explain mapping cardinalities with example.
- Differentiate between generalization & specialization with an example.
- Write a note on various integrity constraints.
- What is the purpose of normalization? Explain BCNF in detail.

Q.3 Answer the following : (any two) 12

- What is decomposition? What are the properties of decomposition? Explain lossless decomposition giving proper example.
- Explain different level of data abstraction in detail.
- Draw an E-R Diagram for Hospital Management System.

- Q.4 Answer the following : (any four) 12
- (i) List and explain any 3 types of keys.
 - (ii) What is cascade update and cascade delete?
 - (iii) Write a note on relational model.
 - (iv) Define Entity & Entity sets.
 - (v) Explain the concept of Aggregation.
- Q.5 (a) Write SQL statement to create these tables with appropriate constraints : 4
- Student (Rno, Name, Gender, Class)
Marks (Rno, Sub1, Sub2, Sub3)
- (b) Solve the following queries : 10
- (i) Display the students of 'FYBCA' & 'TYBCA'.
 - (ii) Find the student who stood first in 'SYBCA'.
 - (iii) Display the no. of girls who have passed in all three subjects.
 - (iv) Count no. of boys who have secured First Class.
 - (v) Find Student who stood first in 'FYBCA', 'SYBCA' & 'TYBCA'.
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