



EB-3720

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

October/November – 2016

205 : Database Management System

Time : 3 Hours]

[Total Marks 70

Instructions :

(1)

नीचे दशांशक निशानियाणी विगनां उत्तरवही पर अवश्य बपवो. Fillup strictly the details of signs on your answer book.	Seat No. :
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
	Student's Signature

(2) Figures on the right indicate marks.

(3) Take assumption whenever necessary.

1 Answer the following : (any seven)

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- (1) What is the use of foreign key? Explain with example.
- (2) Difference between candidate key and primary key.
- (3) What is SQL and why it is important?
- (4) What fact does mapping cardinality indicate?
- (5) What is join? List out the types of joins.
- (6) What is data independence? Explain logical data independence.
- (7) What do you understand by data type memo?
- (8) What is the difference between column level and table (row) level constraint?

2 Answer the following : (any two)

12

- (1) What is DBA ? How DBA can hide various level and kinds of complexity from database user?
- (2) What is decomposition? What are the criteria for good decomposition?
- (3) What do you mean by Integrity constraints ? Briefly discuss, the different type of integrity constraints.

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- 3 Answer the following : (any two) 12
- (1) Write a short note on Anamolies in database during insertion deletion and updation.
 - (2) Explain role of DBA.
 - (3) Compare Physical data independence and Logical data independence.
- 4 Answer the following : (any three) 18
- (1) Design ER Diagram for the following statement :
"Each Bank can have multiple branches and each branch can have multiple accounts and loans". Convert the ER diagram into relational model (i.e. tables). Identify the keys and describe the integrity constraints.
 - (2) Explain TCL.
 - (3) Compare the following :
 - (i) Filebase system and DBMS
 - (ii) Logical and Physical Levels of DBMS
 - (4) Justify "Any relation which is in BCNF is in 3NF but converse is not true".
- 5 (a) Write Queries for creating following tables with appropriate constraints. 4
Bill-Master(Bill-no, car-no, chasis-no, customer-code, bill-date,tax,total-cost)
Customer-Master(Cust-no, name, add,purchase-date, car-colour) Delivery Master(Delivery-no, bill-no, delivery-date, delivery-time)
- (b) Solve the following Queries : 10
- (1) Display the customer detail whose delivery is in the month of March.
 - (2) Display the bill information for the black car.
 - (3) List the customer information who have purchased the car today.
 - (4) Display Bill-no,Bill-date and customer-name who purchased white car.
 - (5) Display bill information. Customer-name for the customers from Surat.