



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

BSC/BCA DEGREE EXAMINATION – COMPUTER SCI. / APPLICATIONS

THIRD SEMESTER – APRIL 2023

UCA/UCS 3501 – RELATIONAL DATABASE MANAGEMENT SYSTEMS

Date: 02-05-2023

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

SECTION A

Answer ALL the questions

1

Define the Following

(5 x 1 = 5)

)

a)	Database	K1	CO1
b)	Data Control Language	K1	CO1
c)	Synonym	K1	CO1
d)	Bind variables	K1	CO1
e)	Varray	K1	CO1

2

Multiple Choice Questions

(5 x 1 = 5)

a)	In the FD , {BillNo,ProductId} → quantity, which is BillNo,ProductId? i) Candidate Key ii) Primary Key iii) Determinant iv) All the above	K1	CO1
b)	Which of the following meant for the command, Desc <Tablename> i) SQL Command ii) DML command iii) SQL PLUS Command iv) DDL Command	K1	CO1
c)	Which of the following operation(s) is/ are permitted between date variables? i) Addition ii) Subtraction iii) Multiplication iv) All the above	K1	CO1
d)	The output of the following PL/SQL Code is DECLARE I number; BEGIN FOR I IN 1..5 LOOP DBMS_OUTPUT.PUT_LINE(I); I:=I+2; END LOOP; END; Prints 1 to 5 ii) Prints 1,3,5 iii) Error iv) Prints 5 to 1	K1	CO1
e)	How will you call a package? Execute ii) Through Query iii) Cannot be called iv) Through PL/SQL	K1	CO1

3

Fill in the Blanks

(5 x 1 = 5)

a)	As per BCNF, every determinant is _____.	K2	CO1
b)	A DDL to delete all the rows in a table is _____.	K2	CO1
c)	The function used to display the same day of the next week is _____.	K2	CO1
d)	The Implicit cursor attribute which is used in programming is _____.	K2	CO1
e)	The trigger used for views is _____.	K2	CO1

4

State True or False

(5 x 1 = 5)

a)	The strong entity in ER diagram is denoted by double lined rectangle.	K2	CO1
b)	The Drop Table command is used to remove a column in a Table	K2	CO1
c)	A date can be subtracted from another date.	K2	CO1
d)	A Number divided by Zero leads to DIVIDE_OVERFLOW exception	K2	CO1
e)	A function can have no argument	K2	CO1

SECTION B			
	Answer any TWO of the following in 100 words		(2 x 10 = 20)
5	Explain the SQL commands for the following i) Creating a table ii) Adding Columns to the table iii) Removing a column iv) Renaming a column in a table v) Copy the structure of a table	K3	CO2
6	Explain group functions with example	K3	CO2
7	Explain IF conditions along with various scopes.	K3	CO2
8	Illustrate PL/SQL tables and records with example	K3	CO2
	SECTION C		
	Answer any TWO of the following in 100 words		(2 x 10 = 20)
9	What are the components of an ER diagram? Draw ER diagram for the following online shopping application Customer(CustomerID, name, ContactNo, mobileNo) Invoice(InvNo, CustID, Date, total Amount) Product (ProductID, Pname, ExpDate, Msr_Qty, UnitPrice) Purchase(ProdID, InvNo, QTY_Purchased)	K4	CO3
10	Explain DML commands and DCL commands with example	K4	CO3
11	Infer the syntax, example and usage of the following functions i) INSTR() ii) SUBSTR() iii) ROUND() iv) CEIL() v) LAST_DAY()	K4	CO3
12	Explain stored functions in PL/SQL? Devise a function to read a number of few digits and display in word.(Ex 345 as Three Four Five)	K4	CO3
	SECTION D		
	Answer any ONE of the following in 250 words		(1 x 20 = 20)
13	Distinguish 1NF, 2NF, 3NF and BCNF with example	K5	CO4
14	Compare CASE statements with DECODE() in SQL and PL/SQL.	K5	CO4
	SECTION E		
	Answer any ONE of the following in 250 words		(1 x 20 = 20)
15	Infer the following LOOP statements with example Unconditional Loop ii) For Loop iii) While Loop iv) Cursor For Loop	K6	CO5
16	Construct a package of Moving Retired Employees from employee table to a table with similar structure. The retirement age is 56. The table has date of birth, but no age. Use a function to find the age. Another procedure to move such rows. Overload the function to return the age while giving date of birth as argument or emp_no as argument.	K6	CO5

&&&&&&&&&&