

16841



BRAINWARE UNIVERSITY

Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

Term End Examination 2024-2025

Programme – BCA-Hons-2024

Course Name – Database Management System

Course Code - BCA27103 (T)

(Semester II)

Full Marks: 40

Time: 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

	(Multiple Choice	Type Question) 1 x 10=1
1.	Choose the correct alternative from the following	g:
(i)	The indicates an absent value that may e at all.	xist but be unknown or that may not exist
(ii)	a) Empty tuplec) Null valueThe information about data in a database is call	b) New value d) Old value ed:
(iii)	a) meta datac) hyper dataWhich of the following is capable of executing a	b) tera data d) None of these a trigger in PL/SQL?
(iv)	a) Oracle serverc) Both user and oracle serverUsing the clause retains only one copy	b) Userd) Neither user nor oracle serverof such identical tuples.
(v)	a) Nullc) UniqueWhat does the COUNT(*) function return?	b) Not null d) Distinct
(vi)	a) The total number of non-null values in a column.c) The total number of rows in a table, including duplicates and nulls.Identify the term used for the overall description	 b) The total number of distinct values in a column. d) The total sum of numeric values in a column. on of a database.
	a) Instance. c) Snapshot.	b) Schema. d) Table.

(vii)	The SQL commands CREATE, ALTER, and DROP are	classified as:	
		b) DML.	
	c) DCL.	d) TCL.	
(viii)	Select the function that is not considered an aggre	egate function among the given options.	
	a) Count.	b) Max	
		d) Select.	
(ix)	Classify the term that describes the number of tur	oles in a relation.	
	a) Cardinality.	b) Degree.	
		d) Schema.	
(x)	Identify the type of data model that is an extensio	n of the ER Model.	
	a) Relational Data Model.	b) Object-based Data Model.	
	c) Structured Data Model.	d) Semi-structured Data Model.	
	Group		
	(Short Answer Typ	oe Questions)	3 x 5=15
	xplain with an example, how a nested query is used bles.	to retrieve data from multiple related	(3)
	onstruct a SQL query to find the names of employee		(3)
	sing a join operation. Given the following relational	schema: Employee (EmplD, Name,	
D	eptID), Department (DeptID, DeptName).		
4. E	xplain the role of DBA.		(3)
	evelop an SQL function to calculate the total number	er of employees in a given department.	(3)
6. C	onsider a relation R (ABCD) with FD ={AC \rightarrow D, BC \rightarrow I ive reason.		(3)
_	OR		
"ا	Every relation in BCNF is also in 3 NF; but a relation	in 3 NF is not necessarily in BCNF"	(3)
E	xplain.		
	Group		
	(Long Answer Typ	oe Questions)	5 x 3=15
7 E	oplain the purpose of the CREATE, ALTER, DROP, and	TRUNCATE commands with syntax and	(5)
	camples.	. The tree is a community with symbol and	. (0)
	that are the advantages and disadvantages of the h	ierarchical data model?	(5)
	plain different types of integrity constraints.		(5)
	OR		
	fferentiate between Data Definition Language (DDI ith examples.	_) and Data Manipulation Language (DM	L) (5)
		The Art of the State of the Sta	
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