## END TERM EXAMINATION

SECOND SEMESTER [BCA] JUNE 2024

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No	Define distributed data processing, instances, schema with example. What is relationship? Explain types of relation with example. What is SQL? Explain characteristics and advantages of SQL. Define lintegrity constraints Primary key, Not NULL, Check with example. Define Views and sequence with example. Define Domain, Tuples, Relation with suitable example. Explain ACID properties Transaction in DBMS.  UNIT I  (a) What are keys? Explain Super key, Candidate key, Primary key with example. (5) What is data independence? Explain logical and physical data independence with diagram. (b) What is DBMS? Explain client/server architecture with suitable diagram. (c) What is DBMS? Explain client/server architecture with suitable diagram. (d) Define Entity, Entity types, Strong Entity, Weak Entity with example. (e) What is a characteristic of SQL? Explain five data types of SQL. (f) Explain Triggers and stored procedure in DBMS with example. (g) What are GROUP BY and HAVING clause? Write a query to illustrate these clauses.  UNIT II  (a) Explain 1st, 2nd and 3rd Normal form with example. (b) What is Functional dependencies? Explain Armstrong's inference rule. (c)  What are joins? Explain Inner, Outer, Left outer, Right outer and full outer join with example. (b) Explain Codd's rules in RDBMS. https://www.ggsipuonline.com (d)  UNIT IV  (a) Define Database recovery. Explain the techniques that are used for database recovery. (b) What is transaction? Discuss the different types of transactions failures that may occur in database. (5)  What is system failure? Explain backup techniques used for system failure. (6)	
Q1	(d) x(f)	Define distributed data processing, instances, schema with example.  What is relationship? Explain types of relation with example.  What is SQL? Explain characteristics and advantages of SQL.  Define integrity constraints Primary key, Not NULL, Check with example.  Define Views and sequence with example.  Define Domain, Tuples, Relation with suitable example.
		UNIT I
Q2	(a)	What are keys? Explain Super key, Candidate key, Primary key with example
	(p)	What is data independence? Explain logical and physical data independence
Q3	(a) (b)	What is DBMS? Explain client/server architecture with suitable diagram. (5) Define Entity, Entity types, Strong Entity, Weak Entity with example. (5)
		UNIT II
Q4	(b)	What is a characteristic of ood. Displant in a data of the
25		What are GROUP BY and HAVING clause? Write a query to illustrate thes
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7	(a)	
	(b)_	
		UNIT IV
8	(a)	
	LDY	What is transaction? Discuss the different types of transactions failures the
)	(a)	· · · · · · · · · · · · · · · · · · ·
	(b)	Differentiate between authentication and authorization techniques. (4)
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