

## II Semester B.C.A. Examination, May/June 2018 (CBCS) (F + R) (2014-15 and Onwards) COMPUTER SCIENCE

**BCA 204 : Database Management System** 

Time: 3 Hours

Max. Marks: 70

Instruction : Answer all Sections.

## SECTION - A sould see the settle nicity (d

Answer any ten of the following. Each question carries two marks: (10×2=20)

- 1. Define:
  - a) DBMS
  - b) Data Model.
- 2. Define Data Independence. Mention the types.
- 3. Differentiate centralized database architecture and client server database architecture.
- 4. What is an entity? Mention the types of entities.
- 5. Define RAID. biet priwotol ent grizu sesdetal 3840,19M3 na etasto (d
- 6. What are database anomalies? Mention the types.
- 7. Define normalization.
- Explain different data types in SQL.
- 9. Expand PL/SQL. Mention any two advantages.
- 10. What is a view? Give the syntax for view creation.
- 11. List different types of failures.
- 12. What is concurrency control?

b) Enter 5 tubles

c) Find sum of salaries of all employees



## Stos enutively not SECTION - B Stateonies II

Answer any 5 of the following. Each question carries 10 marks:					)=5	50)
13		Explain the advantages of DB Explain three schema architect			ųΤ	5
14.		Define different types of keys.			*	
		Explain different Hashing Tech				5
15.		Draw an ER diagram for STUDENT DATABASE SYSTEM.				10
	AUI) CARNI ON SUITSUITSUID HOUSE GIVEN DIE ET LOS TUR LONG.					10
16.		<ul><li>a) Explain generalization and specialization with examples.</li><li>b) Explain trivial dependency.</li></ul>				6
17						
17.		Explain Relational Algebra in o	detail.			5
	U)	Explain 1 NF, 2 NF, 3 NF.	ne Data Independence Mention inc	Defi		5
18.	a)	Explain different aggregate functions in SQL with syntax and examples.		ples.	6	5
		b) What are JOINS? Explain INNER JOIN and OUTER JOIN.				5
19.			ds with syntax and example.			5
	b) Create an EMPLOYEE Database using the following fields :					5
		Field name	Data type			,
		EMPNO and and and	NUMBER			
		ENAME	CHAR Adversion of			
		DOB	Date 102 of server shap tresentib min			
		Dept	String			
		Salary	Real Real			
		a) Create the table	it is a view? Give the syntax for view		OI	
		b) Enter 5 tuples	different types of fallures.		FI	
		c) Find sum of salaries of all en	nplovees			
		d) Find highest and least salarie	es of all employees.		. > 1	
20.	a)	a) Explain ACID properties of a Transaction.				5
	b) Explain different states of transaction.					5
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