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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BCA DEGREE EXAMINATION DECEMBER 2019

(Third-Semester)

Branch COMPUTER APPLICATIONS

RELATIONAL DATBASE MANAGEMENT SYSTEMS

Time:	Three Hours		Maximum: 75 Marks
	Answer A	-A (10 Marks) LL questions arry EQUAL marks	(10 x 1 - 10)
		collection of (ii) Fields (iv) Keys	
	The relational model is concerned (!) Data Integrity (iii) Data Atomicity	(ii) Data manipulatio	n
	cannot contain null va (i) primary key (iii) objects	llues. (ii) field (iv) attribute	
	Which of the following is a group identifies a row? (i) Key (iii) Relation	one or more attributes (ii) determinant (iv) tuple	s that uniquely
	fhe first normal form is based on (i) Atomicity (iii) Durability	the concept of (ii) Functional depen (iv)Security	dency
	is a SQL query to delete all rows in a table without deleting the table structure. (i) DELETE FROM table -name(ii) DELE* 1TE TABLE table name (iii) DROP TABLE table name (iv) DROP FROM table name		
	A problem that arises during the e (i) trigger (iii) exception	execution of a program (ii)slate (iv)event	is
	In a relational database, a referent with the help of (i) Primary key (iii) Objects	tial integrity constraint (ii) Foreign key (iv) Entity integrity .	can be specified
	Function cannot be used for (i) Create (iii) Select	statement (ii) drop (iv) insert	
	is a special type of s when an event occurs in the datab	tored procedure that au	atomatically executes
	(i) Template	(ii) exception	

(iv) inheritance

(iii) trigger

SECTION - B (25 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks $(5 \times 5 = 25)$

11 a Discuss about Database languages.

OR

b Analyze the role of Database users and administrators.

12 a Analyze the ER design issues.

OR

b Elucidate informal design guidelines for relational databases.

13 a Write the uses of select & project operations.

OR

b Write the steps to implement functional dependency for student database.

14 a State the purpose of INSERT, UP DATE and SELECT statements in SQL.

OR

b Describe the structure of views in SQL.

15 a How trigger is used in SQL? Classify its types.

 $\cap \mathbb{R}$

b How database programming is done in SQL? Explain with an example.

SECTION -C (40 Marks)

Answer **ALL** questions

ALL questions carry EQUAL Marks (5 x 8 40)

16 a Summarize the applications and purpose of Database systems.

OR

b Describe centralized architecture for DBMS in detail.

17 a Dramatize various notations in E-R diagram with example.

OR

b Discuss in detail about various aspects of database design.

18 a Describe different relational algebra operation in set theory.

OR

b Elucidate normal forms based on primary keys with an example.

19 a Summarize aggregate functions in SQL.

OR

b Demonstrate the use of views in SQL.

20 a Design and create an application for banking system using ODBC connectivity.

OR

b Design and create an application for student management system using ODBC connectivity.