Reg. No.:....

Code No. : 20604 E Sub. Code : SMCS 43/ SMSE 43

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Fourth Semester

Computer Science/Software Engineering — Core

RELATIONAL DATABASE MANAGEMENT SYSTEM

(For those who joined in July 2017 onwards)

Time: Three hours Maximum: 75 marks

SECTION A — $(10 \times 1 = 10 \text{ marks})$

Answer ALL the questions.

Choose the correct answer:

- 1. A ——— is a collection of interrelated data and a set of programs to access those data.
 - (a) Database Management System
 - (b) Query Processor
 - (c) Interpreter
 - (d) Program

A - enti	ties.	associa	ation among several
(a)	Relationship	(b)	Entity
(c)	Attributes	(d)	Set
	——, each of w		sts of a collection of s assigned a unique
nan	ne.		
(a)	Table	(b)	Attribute
(c)	Entity	(d)	Relationship
two	-	ng pai	ows the combining of rs of tuples, one from ple.
(a)	Attributes	(b)	Set
(c)	Join	(d)	Pair
colle	ŕ		nctions that take a of values as input and
(a)	Nested	(b)	Aggregate
(c)	Views	(d)	Integrity

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6.	A subquery that uses a correlation name from a outer query is called a ————.					
	(a)	Having Clause				
	(b)	From Clause				
	(c)	Correlated SubQuen	ſУ			
	(d)	Duplicate Tuples				
7.	An ———— is a set of entities of the same typ that share the same properties, or attributes.					
	(a)	Entity Set	(b)	Attribute set		
	(c)	Relation set	(d)	Entity model		
8.		In the normal form, a composite attribute is converted to individual attributes.				
	(a)	First	(b)	Second		
	(c)	Third	(d)	Fourth		
9.	A stored procedure in SQL is a ——————————————————————————————————					
	(b)	Group of Transact-SQL statements compiled into a single execution plan				
	(c)	Group of distinct SQL statements				
	(d) None of the mentioned					
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- 10. ——— section contains variables, constants, cursor or exceptions that are going to be used by procedure or function are declared.
 - (a) Declarative
 - (b) Executable
 - (c) Exception Handling
 - (d) Group

SECTION B —
$$(5 \times 5 = 25 \text{ marks})$$

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain about System Applications.

Or

- (b) Explain about the Components of Storage Manager.
- 12. (a) Explain about keys.

Or

- (b) Write the Union Operations.
- 13. (a) Explain about Null Values.

Or

(b) How to create a Views?

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14. (a) What is Attributes? What are the types of Attributes?

Or

- (b) What is Normalization?
- 15. (a) How to create a Table?

Or

(b) Write a syntax for Delete a Table.

SECTION C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain about the view of Data.

Or

- (b) Explain about Transaction Management.
- 17. (a) Explain about the Structure of Relational Databases.

Or

- (b) Explain about the Overview of the SQL Query Language.
- 18. (a) Explain Aggregate Functions.

Or

(b) Explain about SQL Data Types.

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19. (a) Explain about First Normal Form.

Or

- (b) Explain about Enhanced Entity Relationship Model.
- 20. (a) How to modify a table?

Or

(b) Explain about the Stored Procedure or function's block of code in PL/SQL.

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