Reg. No.....

Code No: SS30606E

Sub. Code: SMCS43/SMSE43

B.SC. (CBCS) DEGREE SPECIAL SUPPLEMENTARY EXAMINATION, APRIL2020

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

Part – A (10 X 1 = 10 marks)

Answer all questions, choose the correct answer

1.____is the lowest level of abstraction describes *how* the data are actually stored.

a) Physical b)Logical c)Abstract d)view

2. The _____ is the component of a database system that provides the interface between the low-level data stored in the database and the application programs and queries submitted to the system.

a) Querying b)Storage Manager c)Data Files d)Data Dictionary

3. A _____is a set of one or more attributes that, taken collectively, allow us to identify uniquely a tuple in the relation.

a) Super Key b)Candidate Key c)Foreign Key d) Primary Key

4. The_____operation performs a set union of two "similarly structured" tables.

a) Union b)Intersection c)Cartesian Product d) Set difference

5. SQL allows subqueries to occur wherever an expression returning a value is permitted, provided the subquery returns only one tuple containing a single attribute; such subqueries are called_____.

a) Queries b)Table c)Scalar SubQueries d) Correlated SubQueries

6. _____, which provides commands for defining relation schemas, deleting relations, and modifying relation schemas.

a)DDL b)DML c)FROM d) WHERE

7. Entity is a _____

a) Object of relation b) Present working model c) Thing in real world d) Model of relation

8. Which forms are based on the concept of functional dependency:

a) 1NF b) 2NF c) 3NF d) 4NF

9. Temporary stored procedures are stored in _____ database.

a) Master b) Model c) User specific d) Tempdb

10. _____ is a collection of Data.

a)Database b)Module c)Access d) Word

Section-B

Answer all questions, choosing either 'a' or 'b':- (5 X 5=25 Marks)

11. a. Explain about the purpose of Database Systems.

(or)

b. Explain about the Components of Query Processor.

12. a. Explain about Schema Diagrams.

(or)

b. How to create and insert a table

13. a. Explain about the **Attribute Specification in Select Clause**

(or)

b. Explain about the Boolean Operations.

14. a. What are the components of ER Model?

(or)

b. what are the Types of Anomalies

15. a. Write a Syntax for Update a Table

(or)

b. Write a Syntax For Retrieving a Table

Section-C

Answer all questions, choosing either 'a' or 'b':- (5 X 8=40)

16. a. Explain about Data Manipulation Language in Database Languages

(or)

b. Explain about Database Architecture

17. a. Explain about Relational Operations

(or)

b. Explain the Basic Data Types

18. a. Write the meaning of a query containing aggregation, **group by**, or **having** clauses

(or)

b. Explain about except Operation.

19. a. Explain about Second Normal Form.

(or)

b. Explain about ER-Modeling

20. a. Explain about Date Functions.

(or)

b. Write the advantages of Stored Procedures and Function.