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Name.....

Reg. No.....

**THIRD SEMESTER B.VOC. (PROGRAMME) DEGREE EXAMINATION
NOVEMBER 2019 AND 2020**

Software Development

SDC 3IT 10—INTRODUCTION TO RDBMS AND SQL

Time : Three Hours

Maximum : 80 Marks

Section A

Answer all questions.

Each question carries 1 mark.

1. In an E-R diagram attributes are represented by :
 - (a) Rectangle.
 - (b) Square.
 - (c) Ellipse.
 - (d) Triangle.
2. The view of total database content is called _____.
 - (a) Conceptual view.
 - (b) Internal view.
 - (c) External view.
 - (d) Physical view.
3. Data Independence means :
 - (a) Data is defined separately and not included in programs.
 - (b) Programs are not dependent on the physical attribute of data.
 - (c) Program are not dependent on the logical attributes of data.
 - (d) Both (b) and (c).
4. A table joined with itself is called :
 - (a) Join.
 - (b) Self join.
 - (c) Outer join.
 - (d) Equal join.
5. In the _____ normal form, a composite attribute is converted to individual attributes.
 - (a) First.
 - (b) Second.
 - (c) Third.
 - (d) Fourth.

Turn over

6. The number of tuples in a relation is called its _____, while the number of attributes in a relation is called its _____.
- (a) Degree, Cardinality. (b) Cardinality, degree.
(c) Rows, columns. (d) Column, rows.
7. A statement used for allocating system privileges to users :
- (a) Create. (b) Grant.
(c) Revoke. (d) Role.
8. Name any *two* events in Triggers.
9. A dynamic cursor in SQL server allows you to see _____ data.
- (a) Updated. (b) Inserted.
(c) Deleted. (d) All the above.
10. A _____ is used to define code that is executed /fired when certain action or event occur.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

*Answer any **eight** questions.*

Each question carries 2 marks.

11. Define functional data model.
12. Explain the levels of data abstraction.
13. Briefly explain physical and logical schema.
14. Write short note on functional dependencies.
15. Write short note on BCNF ?
16. What is query language ?
17. Explain the syntax of CREATE table command.
18. What is view in SQL ? How is it defined ?
19. Define tuple variable.
20. Briefly explain group by clause.

21. Compare and contrast between DELETE and DROP command ?
22. Write short note on database security.

(8 × 2 = 16 marks)

Section C (Short Essays)

*Answer any **six** questions.
Each question carries 4 marks.*

23. Explain entity relation model.
24. Who is DBA ? What are the responsibilities of DBA ?
25. Write query for :
 - (a) Retrieve second maximum value from salary field of employ table.
 - (b) Retrieve employees with salary greater than average salary.
26. Write short note on relational calculus.
27. List SQL statements used for transaction control.
28. Discuss different type of joins.
29. Write short note on data types in SQL with example.
30. Differentiate between implicit and explicit cursor.
31. What is functions in SQL ? Discuss different type of functions.

(6 × 4 = 24 marks)

Section D (Essays)

*Answer any **two** questions.
Each question carries 15 marks.*

32. Explain the architecture of DBMS in detail ?
- Or*
33. What is the need of normalization ? Explain various normal form with suitable example.
 34. Explain stored procedure ? What are the advantage of stored procedures ?

Or

35. Explain components of PL/SQL block in detail with suitable example.

(2 × 15 = 30 marks)