Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor of Vocation Degree Examination – July 2020
II Semester

Class : I B. Voc **Time : 3 hours**
Major : Artificial Intelligence & Machine Learning **Max. Marks : 100**

19VAIC05 Introduction to Databases

Part A **10 x 1 = 10**
Choose the Correct Answer

1. The _____ is a systematic collection of data.
   a. data b. database c. information d. None of the above

2. The _____ can be used to read, store and update the data in the database.
   a. database b. database language c. DML d. bulk of information

3. The _____ attributes are made of more than one simple attribute.
   a. composite b. single c. multiple d. None of the above

4. The _____ are represented by means of rectangle.
   a. Attributes b. Entity c. Relationship d. Entities

5. The _____ command is used insert a value in a table.
   a. update b. insert c. delete d. select

6. The _____ model represents the database as a collection of relations.
   a. E-R b. Relational c. Hierarchical d. All the above

7. Each column of a table should contain only _____ valued but must not contain multiple value.
   a. single b. multiple value
   c. more and single d. None of the above

8. In second normal form _____ dependency should not be there in relation.
   a. functional b. transitive c. partial d. fully

9. The subprogram can be invoked by another subprogram or program. is called
   a. Sub-program b. Called program
   c. Calling program d. None of the above

10. The _____ is the standard language for relational database systems.
    a. PL/SQL b. SQL c. C d. RDBMS

Part B **5 X 6 = 30**

Answer ALL questions

Answer should not exceed 400 words or two pages

11.a. Outline the difference between logical independence and physical independence.

(or)

11. b. Brief about the classification of DBMS.

12. a. Summarize the types of data modelling techniques.

(or)

12.b. Recall the types of various attributes with example.

13.a. Explain about the relational model concepts.

(or)

13. b. Discuss about the relational database schema.

14.a. Discuss about the partial and transitive dependency.

(or)

14.b. Summarize the concept of partial and transitive dependency with example.

15.a. Explain about the SQL joins with example.

(or)

15.b. Explain about the features and advantage of PL/SQL.

Part C **5 X 12=60**

Answer ALL questions

Answer should not exceed 800 words or four pages

16. a. Discuss about the DBMS database models.

(or)

16.b. Elaborate the DML and DDL statements with example.

17.a. Outline the concepts of entity types, entity sets, attributes and keywords.

(or)

17.b. Summarize the concepts and notations of E-R with neat diagram.

18.a. List and brief about the relational model constraints.

(or)

18.b. Discuss about the various operations involved in relational database model.

19.a. Explain about the functional dependency concepts and its types with example.

(or)

19.b. Explain about the normalization concept and its various normal forms.

20.a. Explain about the SQL commands with example.

(or)

20.b. Elaborate the PL/SQL conditions with example.

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