AW–1725

B.Sc. (Part-II) (Semester–IV) Examination
COMPUTER APPLICATIONS (VOC.) (NEW)
(Database Management System)

Time : Three Hours]   [Maximum Marks : 80

Note :— (1) Question No. **1** is compulsory.

(2) Question Nos. **2** to **13** carry equal marks.

(3) Assume suitable data and draw labelled diagram wherever necessary.

1. (A) Fill in the blanks :

   (i) Existence of _____ entity depends on another entity.

   (ii) _____ command is used to modify the existing row of table.

   (iii) Non-key of one table becomes a primary key of another table is known as _____.

   (iv) _____ command is used to display the data from table.   2

   (B) Choose the correct alternative and rewrite the statement :

   (i) _____ is not number function.
      (a) Lower   (b) AVG
      (c) MAX   (d) ABS

   (ii) Rows in the table (relation) are called _____.
      (a) Attribute   (b) Tuples
      (c) Node   (d) Entity

   (iii) _____ data type is used to store binary data.
      (a) Number   (b) RAW
      (c) BIN   (d) CHAR

   (iv) _____ statement makes changes permanent.
      (a) Commit   (b) Roll back
      (c) MKPR   (d) TRIGGER   2

   (C) (i) What is system privilege ?

   (ii) What is E-R diagram ?

   (iii) What is BCNF ?

   (iv) What is save point ?   4

2. (A) Describe Architecture of Database system.   6

   (B) Explain Hierarchical database model with example.   6

OR

3. (A) What are various components of database system ?   6

   (B) Explain Network database model with example.   6

4. (A) What is E-R diagram ? Describe symbols used in it.   6

   (B) Describe the following :

   (i) Relation

   (ii) Attribute

   (iii) Domain   6

OR

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(A) Explain following :

    (i)   Functional dependency

    (ii) Entity and entity set   6

  (B) Explain 3 NF with example.   6

6. (A) Describe various components of SQL.   6

  (B) Explain following with syntax and example :

    (i)   INSERT

    (ii) UPDATE   6

OR

7. (A) Describe ORDER BY clause with example.   6

  (B) Explain rollback segment.   6

8. (A) Describe various integrity constraints.   6

  (B) Describe the following Date functions :

    (i)   add_months ( )

    (ii) Last_day   6

OR

9. (A) Describe following with syntax and example :

    (i)   ABS

    (ii) SQRT

    (iii) SIGN   6

  (B) What is join ? Explain self join with example.   6

10. (A) Describe various data types in PL/SQL with example.   6

  (B) Describe following :

    (i)   Creating BEFORE trigger

    (ii) Creating AFTER trigger   6

OR

11. (A) Differentiate between implicit and explicit cursors.   6

  (B) Describe concept of package and its creation.   6

12. (A) Describe various locking levels.   6

  (B) Describe SQL security concept.   6

OR

13. (A) What is privileges ? What are syst privileges ?   6

  (B) How views are useful in security enforcement ?   6