KNT/KW/16/5265

Bachelor of Computer Application (B.C.A.) Semester—IV (C.B.S.) Examination

SQL AND PL/SQL

Paper—II

Time : Three Hours]   [Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) Explain with syntax and example for "Deriving a table from an Existing table".   5

(b) Explain UNIQUE KEY constraint and PRIMARY KEY constraint with syntax and example.

5

OR

(c) Write a short note on 'sequence' database object in ORACLE.   5

(d) Given a Table 'student' existing with fields rollno, sname, total_marks, grade.

write a query to :

(i) Add PRIMARY KEY constraint to rollno column.

(ii) Change size of column sname to 20.

(iii) Change data type of grade column to CHAR.

(iv) Drop column total_marks.

(v) Add column Addr of type VARCHAR2 and size 30.   5

EITHER

2. (a) Explain creation and dropping a view from a single table with syntax and example.   5

(b) Explain the following categories of PL/SQL data types :

(i) Scalar, (ii) Composite, (iii) Reference, (iv) Object, (v) LOB.   5

OR

(c) Write a PL/SQL block to display prime numbers upto n.   5

(d) Create an inline view that retrieves the information about employees whose salaries are greater than the company's average.   5

EITHER

3. (a) Explain the WHEN OTHERS clause in exception with the help of an example.   5

   (b) Write a PL/SQL block that illustrates the use of the % ROWTYPE attribute and retrieves the information of the employees with department number 10.   5

OR

   (c) Illustrate "parameter passing in cursor" with example.   5

   (d) Create a procedure that displays the information in the EMP table.   5

EITHER

4. (a) Write short notes on 'Purity levels in functions'.   5

   (b) Explain the following Trigger predicates with example :

   (i) INSERTING (ii) DELETING.

   Write syntax to enable, disable and drop triggers.   5

OR

   (c) Differentiate between Row level or Statement level trigger.   5

   (d) Create a function that adds new employee in EMP table. The function should display the grade of the salary of an employee.   5

5. Attempt **ALL** :—

   (a) Explain TCL statements with syntax and example.   2½

   (b) Explain Identifiers in oracle.   2½

   (c) Explain Attributes of Explicit cursors.   2½

   (d) Explain Database Triggers with example.   2½