Reg. No. ☐☐☐☐☐☐☐☐☐

BASDPC 355

**Credit Based Sixth Semester B.A./B.Sc. Degree
Examination, September 2022
(Common to all Batches)
DATA PROCESSING
Paper – VIII : Database Concepts and Oracle**

Time : 3 Hours   Max. Marks : 80

PART – A

1. Answer **any ten** questions.   **(10×2=20)**

   a) Define DBMS.

   b) What is a database schema ?

   c) What is ER model ?

   d) List the different arithmetic and logical operators.

   e) What are constraints ? Give example.

   f) Differentiate DELETE and DROP commands.

   g) Name the operator used for range searching and pattern matching.

   h) What is a view ? How to create it ?

   i) Name the attributes of a cursor.

   j) What is Foreign key ? Give example.

   k) What is a subquery ? Give example.

   l) Name the two forms of comments in PL/SQL.

PART – B

Note : Answer **any one full** question from **each** Unit.

Unit – I

2. a) Explain the advantages of DBMS.

   b) What are the different database models ? Explain.

   c) Explain the following :

   i) Simple Vs Complex Attributes.

   ii) Stored Vs Derived Attributes.   **(5+5+5)**

3. a) Explain with example, the different symbols used in ER diagram.

b) Write a note on history of database systems.

c) Discuss the entity integrity and referential integrity constraints. **(5+4+6)**

Unit – II

4. a) Explain the following commands.

   i) UPDATE

   ii) ORDER BY

   iii) GROUP BY

b) Explain any four aggregate functions of Oracle.

c) Explain the purpose of CHECK constraint in Oracle. **(6+4+5)**

5. a) Explain INSERT and SELECT command with its syntax and example.

b) Write a note on ROLL BACK and COMMIT statements.

c) Consider the following tables.

   SBMAST(Acno, Name, Dob, City, Balance) and

   SBTRANS(Acno, Trn_Date, Trn_Type(Debit/Credit), Trn_Amt, Cur_Balance)

   i) Write the create table command for the above tables.

   ii) List all the customers of Bank whose name ends with 'raj'.

   iii) List the transaction details according to the current balance in descending order.

   iv) Delete the SBTRANS from the system. **(6+4+5)**

Unit – III

6. a) Explain the datatypes in PL/SQL.

b) Explain the different forms of If statement in PL/SQL with example.

c) Explain with an example how to create a function and use it. **(5+5+5)**

7. a) Explain the structure of PL/SQL program.

   b) Differentiate procedures and functions.

   c) Explain while and for statement. **(5+5+5)**

Unit – IV

8. a) Explain the syntax for creating trigger.

   b) Write a PL/SQL program to generate first 'n' Fibonacci numbers.

   c) What is a cursor ? Explain with example how to create it. **(5+5+5)**

9. a) What is a trigger ? Explain its types.

   b) Explain :
       i) CURSOR...IS
       ii) FETCH
       iii) FOR...IN

   c) Differentiate Implicit cursor and Explicit cursor. **(6+5+4)**

_____