

**CDOE**  
**BACHELOR OF COMPUTER APPLICATIONS**  
**B.C.A. Sem-IV : WINTER :- 2021**  
**SUBJECT: BUSINESS INFORMATION SYSTEM & ORACLE**

**Day : Thursday**  
**Date 17-02-2022**

**W-5335-2021**

**Time : 02:00 PM-05:00 PM**  
**Max. Marks: 80**

**N.B:**

- 1) Attempt **ANY FIVE** questions from Section-I. Each questions carries **10** marks.
- 2) Attempt **ANY TWO** questions from Section-II. Each questions carries **15** marks.
- 3) Figures to the right indicate **FULL** marks.

**SECTION-I**

- Q.1** Differentiate between Data and Information. Explain the relevance of information in decision making. **(10)**
- Q.2** Explain Hierarchical and Network Data models. **(10)**
- Q.3** Explain select and update commands with 'where' clause. **(10)**
- Q.4** Explain Data types in oracle **(10)**
- Q.5** Explain simple join and equi join with example. **(10)**
- Q.6** What do you mean by locks of oracle? Explain types of lock in oracle. **(10)**
- Q.7** Write short notes on (**ANY THREE**): **(10)**
- a) PL/SQL block
  - b) Decision tree
  - c) DDL and DML
  - d) Table constraint

**SECTION-II**

- Q.8** Create the following table **(15)**  
manufacturers (pcode, name)  
products (pcode, name, price, manufacturer)  
Write the commands for the following.
- i) Insert five records in each table **(03)**
  - ii) Display name of the products with a price less than or equal to 200. **(03)**
  - iii) Display average price of all products. **(03)**
  - iv) Display name and price of the cheapest product. **(03)**
  - v) Compute the average price of all product whose manufacturer code is 2. **(03)**
- Q.9** Write a PL/SQL block to **(08)**
- a) Enter three numbers and print the largest number. **(08)**
  - b) To enter the value of length and breadth to calculate area of a rectangle. **(07)**
- Q.10** Consider the following relational database **(15)**  
Dept (dept-no, dept-name)  
Emp (Emp-no, Ename, salary, designation, dept-no)  
write a script using cursor to give raise in salary by 15% for all the employees earning less than 15000 and 20% for all employees earning more than a equal to 15000.

\* \* \* \* \*