B.A./B.Sc. 5th Semester (Batch 2020-23)

COMPUTER SCIENCE

(Database Management System & Oracle)

Time Allowed—3 Hours]   [Maximum Marks—75

Note :— Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. (a) Discuss the role of relational database systems in detail.   8

   (b) Explain the concept of ER diagram by taking suitable example.   7

2. Explain the following concepts for DBMS :—

   (a) Role of Hierarchical model   8

   (b) Need of SQL.   7

SECTION—B

3. What is the concept of database Security and Integrity ? How recovery of data is achieved ? Explain.   15

4. Explain the following concepts :—

   (a) Concurrency control.   8

   (b) Distributed databases.   7

SECTION—C

5. Explain the following operations :—

   (a) UNION and INTERSECTION.   8

   (b) JOIN method.   7

6. Discuss different types of operators using SQL to demonstrate the use of operators.   15

SECTION—D

7. (a) Differentiate implicit cursors using code snippets.   8

   (b) What are functions ? Write an example code snippet containing user-defined functions.   7

8. (a) How the Packages are used for the development of DBMS ? Explain.   8

   (b) What are triggers ? Explain various types of database triggers.   7

B.A./B.Sc. 5ᵗʰ Semester (Batch 2020-23)
ENGLISH (Compulsory)

Time Allowed—3 Hours]   [Maximum Marks—50

Note :— Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. Why did Joe commit suicide in *All My Sons* ? Explain it in detail.

2. Discuss the theme of Guilt, Conflict and Morality in *All My Sons*.

SECTION—B

3. Discuss the Central Idea of the poem 'Dover Beach'.

4. Explain the following stanza with reference to the context.

   O Lord, breaking false religion,
   Save the blind !
   Break ! O break
   The alter that is drowned in blood.

Let your thunder strike

Into the prison of false religion,

And bring to this unhappy land

The light of Knowledge.

SECTION—C

5. Write a letter to the editor of the Newspaper describing the deaths due to Covid-19 in your city.

6. Write an application for the post of Research Associate in a Research Center.

SECTION—D

7. Write a Resume for the job of a Manager in a Bank.

8. Write down a report on the Election preparation in your District.