

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION  
APRIL 2020**

Microbiology

MBG 4C 09 C—LANGUAGE, DATABASE MANAGEMENT SYSTEM AND SQL

[2018 Admissions]

Time : Three Hours

Maximum : 64 Marks

**Part A (Objective / One word / Fill in the blanks)***Answer all questions, each question carries ½ mark.*

1. A collection of computer programs and related data is referred to as \_\_\_\_\_.
2. The numbers having fractional parts are called \_\_\_\_\_ constants.
3. Variables that are declared inside a function or block are called \_\_\_\_\_ variables.
4. The value of the expression  $X = 7 + 3 * 2 + 1$  is \_\_\_\_\_.
  - (a) 21.
  - (b) 14.
  - (c) 16.
  - (d) None of these.
5. \_\_\_\_\_ is not an arithmetic operator.
  - (a) \*.
  - (b) %.
  - (c) ++.
  - (d) ==.
6. \_\_\_\_\_ is an 'address of operator'.
  - (a) <<.
  - (b) \$.
  - (c) &.
  - (d) @.
7. The \_\_\_\_\_ operator is used to access different variables inside a union
  - (a) &.
  - (b) \*.
  - (c) .
  - (d) +.
8. A collection of related data is known as \_\_\_\_\_.
9. Name the SQL command which is used to change the definition of a base table.
10. Name the SQL command which is used to modify the attribute values of one or more selected tuples.

Turn over

11. DDL stands for \_\_\_\_\_.

- (a) Data Derived Language.
- (b) Data Definition Language.
- (c) Data Dedicated Language.
- (d) None of these.

12. SQL Stands for \_\_\_\_\_.

- (a) Sorted Query Language.
- (b) Standard Query Language.
- (c) Structured Query Language.
- (d) None of these.

(12 × ½ = 6 marks)

### Part B (Short Answer Type Questions)

*Answer all questions, each question carries 2 marks.*

- 13. What is computer program ?
- 14. What do you mean by algorithm ?
- 15. Define flowchart.
- 16. What is a variable ?
- 17. What is switch statement ?
- 18. What is the use of an array ?
- 19. What are pointers ?
- 20. What is DBMS ?
- 21. What do you mean by composite attribute ?
- 22. What do you mean by views in SQL ?

(10 × 2 = 20 marks)

### Part C (Short Essay Type Questions)

*Answer any six questions, each question carries 3 marks.*

- 23. What are the qualities of good algorithm ?
- 24. Write an algorithm to find maximum of two numbers entered by the user.

25. What are the rules for naming C variables ?
26. Explain the arithmetic operators with example.
27. What is the difference between scanf() function and printf() function ?
28. What are the responsibilities of DBA ?
29. Write a note on Union and Intersection operations.
30. Discuss the aggregate functions used in SQL.

(6 × 3 = 18 marks)

**Part D (Essay Type Questions)**

*Answer any two questions, each question carries 10 marks.*

31. Explain different flowchart symbols. Write a C program to check the given number is even or odd.
32. Discuss the different types of loop control statements in C language.
33. What is Normalization ? What are the different forms of Normalization ? Explain.

(2 × 10 = 20 marks)