SECOND SEMESTER B.Sc. DEGREE [SUPPLEMENTARY/IMPROVEMENT] EXAMINATION, APRIL/MAY 2015

(UG—CCSS)

Complementary Course—Mircobiology

MB 2C 07—C LANGUAGE, DATABASE MANAGEMENT SYSTEM AND SQL

Time : Three Hours   Maximum : 30 Weightage

I. Answer all *twelve* questions :

1 Size of char data type is :

     (a) **1** byte.   (b) 2 byte.

     (c) 8 byte.   (d) 4 byte.

2 _____ have fixed meaning :

     (a) Variable.   (b) Keywords.

     (c) Identifiers.   (d) None of these.

3 The function used to compare two string :

     (a) strcpy.   (b) strcmp.

     (c) strcat.   (d) strlen.

4 _____ is the sole authority of the database.

     (a) DBA.   **(b)** Database users.

     (c) Database manager.   (d) None of these.

5 The distinguishable part of a record are called :

     (a) Files.   (b) Data.

     (c) Fields.   (d) Database.

6 _____ operator gives a vertical subset of a given relation.

     (a) Selection.   (b) Projection.

     (c) Join.   (d) None of these.

7 The value of $-14\%3$ is _____

8 The comparison of two quantities done with the help of _____ operator.

9 The return type of main ( ) function is _____ by default.

10 _____ stores metadata about the structure of the database.

11 DML stands for _____

12 The number of attributes/columns in a relation is called _____

(12 x ¼ = 3 weightage

II. Short Answer type questions. Answer all *nine* questions :

13 Write different flowchart symbols.

14 Define function prototype.

15 Define pointer.

16 What is the use of goto statement in C.

17 Define global variable.

18 Define Cardinality.

19 What is weak entity ?

20 Define domain.

21 What is a view ?

(9 x 1 = 9 weightage)

III. Short essay *or* paragraph questions. Answer any *five* questions :

22 Explain the different string handling functions in C.

23 What is the difference between break and continue statements in C ?

24 Define call by value and call by reference with suitable example.

25 Explain about fundamental relational algebra operations .

26 Explain about group by and having clause.

27 Write a note about different types of database users.

28 Explain embedded SQL.

(5 x 2 = 10 weightage)

IV. Essay questions. Answer any *two* questions :

29 Write a C program to find factorial of number using recursion.

30 Write a note about different looping statements in C.

31 What is database management system ? Explain advantages of database management Sys

(2 x 4 = 8 weigh