

**Exam.Code:0040**

**Sub. Code: 0999**

**1059**

**B.Sc. (Hons.) Bio-Informatics**

**Second Semester**

**BIN-2007: C Language and Programming**

**Time allowed: 3 Hours**

**Max. Marks: 60**

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) Differentiate between cascaded-if and nested-if with help of examples.
- b) Convert string in lower case to upper case.
- c) Discuss nested structures with help of example.
- d) Discuss pointer arrays. (4x3)

**UNIT – I**

- II. Discuss in C language for: Built-in data types, constants and literals. Write a program to show use implicit conversion of data types. (6,6)
- III. Differentiate between while and do-while loop. Discuss nested if with an example. Write program in C count digits in a number. (4,4,4)
- IV. Insert a number at first position in an array with an example. Write a program in C to multiply two matrices. (6,6)

**UNIT – II**

- V. Write a program in C to differentiate between call-by-value and call-by-reference. Discuss recursive function. (6,6)
- VI. Write short note on array of structures. Differentiate between unions and structure using suitable example. (6,6)
- VII. Discuss pointers initialization and pointer assignment using suitable example. Write program in C to store first 10 natural numbers in a text file. (6,6)

x-x-x