Exam.Code:0040 Sub. Code: 0999

2054

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. I which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Write short answers of the following:
 - a) Differentiate between / and % operators used in C.
 - b) How are comments given in C language?
 - c) What is the difference between automatic type conversion and type casting?
 - d) Differentiate between prefix decrement operator and postfix decrement operator.
 - e) Differentiate between Structure and Array.
 - Name different modes in which a file can operate in C.

(6x2)

UNIT - I

- II. (a) Explain commonly used input and Output statements used in C with examples.
 - (b) Explain scalar data types used in C with suitable examples.

(6,6)

- III. (a) Explain the use of switch statement in C. Write a program that accepts numbers 1 to 12 as input and displays the corresponding monthname using switch statement.
 - (b) Write a program in C to check whether a number entered by user is even or odd?

 (6.6)
- IV. (a) Explain two dimensional Arrays? Also write a C program that adds two matrices.
 - (b) How are strings created in C? Write a C program to find the reverse of a String.

(6,6)

<u> UNIT - II</u>

- V. (a) Explain the Modular Approach of Problem solving.
 - (b) How are functions defined and used in C? Write a C program to add two integers using functions.

 (6, 6)
- VI. (a) Explain the working of a recursive function with the help of examples.
 - (b) What is a Structure? How is it declared and accessed in C? Define a structure to store information of a particular date.

 (6,6)
- VII. (a) Write a short note on Pointer Arithmetic. Give suitable examples.
 - (a) Which a share (a) Which a share (b) Explain the use of fscanf(), fgets(), fprintf() anffputs() functions used in file handling in C.

(6,6)