

2053
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. Write short answers of the following:-

- Differentiate between the = symbol and == symbol.
- Differentiate between call by reference and call by value in C.
- Explain the use of header file in C.
- Differentiate between for and while loop.
- What is the use of a static variable in C?
- Explain the use of fscanf() and fprintf().

(6x2)

UNIT - I

- What is an Identifier? Explain the rules to name an Identifier.
 - Explain four basic types of constants in C. (2x6)
- Explain any three Decision making statements in C with the help of examples.
 - Write a program in C that finds greatest of three numbers. (2x6)
- Explain two dimensional Arrays? Also write a C program that finds transpose of a square matrix.
 - How are strings handled in C? Write a C program to find the length of a String. (2x6)

UNIT - II

- Explain the use of Top down Approach of Problem solving.
 - What are Library Functions in C? Explain any four Library Functions with examples. (2x6)

P.T.O.

(2)

- VI. (a) What is a Recursion? Write a recursive function that returns factorial of a number N.
(b) How do you define a Structure in C? Also differentiate between a Structure and a Union. (2x6)
- VII. (a) What is a Pointer? Which operations can be performed on Pointers? Explain with examples.
(b) How do you create an Array of Pointers? Give examples. (2x6)

x-x-x