

2071
B.A./B.Sc. (General) Second Semester
Computer Science
Theory - B (CS-04): C Programming

Time allowed: 3 Hours

Max. Marks: 30

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I -IV.

x-x-x

UNIT – I

- I. What do you mean by the terms Testing and Debugging? Explain each in detail. (6)
- II. What are the different types of C constants? Explain in detail giving example. (6)

UNIT - II

- III. Differentiate between using if else ladder and using a switch case in C language. (6)
- IV. What are the different loops in C language? Explain in detail giving the syntax and working of each. (6)

UNIT - III

- V. What do you mean by Global and Local Variables in a function? Also explain the concept of formal and actual parameters of a function. (6)
- VI. Write a program in C to multiply two 3*3 Matrices. (6)

UNIT - IV

- VII. Without using any inbuilt function in C, Find the length of a string and copy a string to another string. (6)
- VIII. What is a structure in C? How to access the structure members? How is structure declared in C? (6)

UNIT - V

- IX. Answer the following questions briefly:-
 - a) Define recursion? How is it useful in C?
 - b) What are the rules to construct a variable?
 - c) Define the role of using goto statement in C. (3x2)

x-x-x