

3-1/2111

(Semester I)

10075/NB

Title of Paper

: Programming Fundamentals using C - 114

Time Allowed

: 3 Hours

Maximum Marks: 75

Note: Candidates are required to attempt two questions each from sections A and B of the question paper and the entire section C.

SECTION A

- Q1. What are the various types of operators available in C? Discuss the rules governing uses of logical operators. 15
- Q2. Elaborate various iterative constructs supported by C language with the help of suitable examples. 15
- Q3. Write a program to find the HCF of two given numbers. 15
- Q4. Define Functions. What are the advantages of using functions? What are the various methods of passing parameters to functions? 15

SECTION B

- Q5. Write a program in C to multiply A (m x n) matrix and B (n x l) matrix. 15
- Q6. What do you mean by string processing? List various string processing inbuilt functions available in C language? Give the syntax and purpose of any three. 15
- Q7. What do you mean structures? How structures are declared and initialized? How structures are different from arrays? 15
- Q8. What is the difference between text and binary files? What are the I/O functions available in C for text files? 15

SECTION C

- Q9. a) What is problem definition? 03
- b) Illustrate the use of continue statement. 03
- c) What are the merits and demerits of recursion? 03
- d) What are the characteristics of a static variable? 03
- e) Differentiate among getch(), getche() and getchar(). 03