

Roll No.

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13474/NJ**E-25/2111****COMPUTER PROGRAMMING USING 'C'**

Paper-1104T

Semester-I

Time Allowed : 3 Hours] [Maximum Marks : 40

Note : The candidates are required to attempt **two** questions each from Sections A and B carrying 6 marks each and the entire Section C consisting of 8 short answer type questions carrying 2 marks each.

SECTION—A

1. What is a Data type? Explain the primitive Data types in C in terms of their scope, size and range.

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2. Write down the syntax and purpose of following statements : 6

(a) If..else...

(b) switch.

(c) break.

(d) continue.

3. List down the Unary, Logical, Assignment and Conditional operator in C. 6

4. What is Recursion? Write a C program to compute factorial of a given number using recursion. 6

SECTION—B

5. What is an Array? Explain the declaration and initialization of one and two dimensional arrays with example. 6

6. Explain the String manipulation library functions with examples. 6

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7. What is a Pointer? Explain the Pointer variable declaration, address and indirection operator with an example. 6
8. Write a C program to read and display a Text from the File. 6

SECTION—C

9. Answer the following questions : 8×2=16
- (i) What is a Pseudo code?
 - (ii) Differentiate recursion vs. iteration.
 - (iii) Write the purpose of size of Operator.
 - (iv) Differentiate Struct and Union.
 - (v) What is Program verification?
 - (vi) List the Arithmetic operators in C.
 - (vii) State the difference between Binary and Text file.
 - (viii) Explain the Syntax of structure declaration with example.