

Roll No. ....

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**7328/N**

**J-25/2110**

**COMPUTER PROGRAMMING USING C**

Paper-112

Semester-I

Time allowed : 3 Hours] [Maximum Marks : 70

**Note :** Attempt **two** questions each from Section A and Section B carrying **10½** marks each and entire section C is compulsory consisting of **10** short answer type questions.

**SECTION-A**

1. What are the various operators available in 'C' language? What do you mean by operator precedence and associativity? 10½
2. Elaborate various conditional control structures supported by C language. 10½

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**[P.T.O.**

3. What do you mean by an array? How an array is declared and finalized? Explain with examples. What do you mean by two dimensional arrays? Also explain initialization and declaration of two dimensional arrays? 10½
4. Write a program in C to check whether a given number is palindrome or not. 10½

**SECTION-B**

5. What is a pointer? What are advantages and disadvantages of pointers? How can we display the address of a variable? Differentiate between indirection operator and dereferencing operator. 10½
6. Define Functions. What are the advantages of using functions? What are the various methods of parameter passing to function? Explain. 10½
- Q7. What is the difference between Structures and Unions? Explain with the help of two examples of each. 10½

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Q8. Given a text file containing some text. Write a program that reads this file and replaces each occurrence of character 'x' with uppercase 'X'. 10½

### SECTION-C

9. (i) What do you mean by identifier, constant and variable? How they are different from each other? 3
- (ii) What is type conversion? Why it is required? 3
- (iii) Differentiate between '=' and '=='. 3
- (iv) Differentiate between break and continue statement. 3
- (v) What are nested loops? 3
- (vi) What is recursion? 3
- (vii) What are various ways to read a character? Discuss in brief. 3

- (viii) Give the syntax and purpose of library function to compare two strings. 3
- (ix) Differentiate between binary file and text file. 2
- (x) What are random files? 2