Roll No_____

PROGRAMMING IN 'C'
BC-104(N2)
Paper ID-B0204

Time Allowed: 03 Hrs   **M. Marks: 60**

Note: Attempt all questions from Section–A and any four questions from Sections-B.

Section A

Q1 (a)	What are symbolic constants? Explain.	2
(b)	Write a program in C language to check whether the given year is leap year or not.	2
(c)	Write a program in C language to find factorial of given number using recursion.	2
(d)	What are actual and formal parameters? Explain with an example.	2
(e)	Explain how gets( ) function is different from getch( ).	2
(f)	List various file related function available in 'C' language.	2
(g)	What are advantages and disadvantages of recursion?	2
(h)	Write a 'C' program to check whether a given string is palindrome or not?	2
(i)	What is self referential structure? Explain with example.	2
(j)	What is binary search? How it is different from linear search.	2

Section B

1	What are different data types in 'C' language? Explain various primary and secondary data types by taking suitable examples.	10
2	What are various control flow statements? Explain the difference between for, while and do while statement.	10
3	What is an operator? How it is different from an operand? Explain the order of precedence and associatively of various operators.	10
4	Write note on the following:- • Call by value and call by reference. • Function Prototyping.	10
5	What is structure? How it is different from Union? Explain the concept of structure and union by taking suitable example.	10
6	What is sorting? How it is different from searching? Write a program in C language to sort an array of N numbers.	10

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