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(20524)

BCA-II Sem.

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Roll No.

18006

B.C.A. Examination, May-2024

C-Programming

(BCA-202)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt **all** sections as per instructions.

Section-A

Note : Attempt **all 5** questions. Each question carries **3** marks. Very short answer is required not exceeding **75** words.

1. What are header files and their uses?
2. What is the difference between macro and functions?

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3. What is a structure? How it is different from Union?
4. What is static memory allocation and dynamic memory allocation?
5. What is the difference between `getc()`, `getchar()`, `getch()` and `getche()`?

Section-B

Note : Attempt all **2** questions out of the following **3** questions. Each question carries **7.5** marks. Short answer is required not exceeding **200** words.

6. Write a C program that reads 20 integer numbers from keywords and sort them in ascending order.
7. Write a C program to check input string is palindrome or not without using any string library function.

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8. Write a C program to add two complex numbers by passing structure to a function.

Section-C

Note : Attempt any **3** questions out of the following **5** questions. Each question carries **15** marks. Answer is required in details.

9. What do you mean by pointer? Write C program to access elements in a 2 dimensional array using pointer.
10. How string is different an array? Write a C program convert a lower case string to upper case string without using string manipulation function.

11. Write a program in C to count the number of words and characters in an input file test 1.txt.
12. Write a program in C for the multiplication of two matrices of size 4×4 .
13. Create a structure named 'Book' to store book details like title, author, and price. Write a C program to input details for three books, find the most expensive and the lowest priced books, and display their information.