A	Printed Pages :
(20623)	Roll No
BCA-II Sem.	
	18006

B.C.A. Examination, June-2023 C-PROGRAMMING

(BCA-202)

Time: 3 Hours] [Maximum Marks: 75

Note: Attempt all the sections as per instructions.

Section-A

(Very Short Answer Type Questions)

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

- Write various data type supported in C with example.
- What are headers files? Why they are important? 3
- Write limitations of switch case.
- Differentiate between scope and lifetime of a variable.
- Define preprocessor and its usage in programming.

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Section-B

(Short Answer Type Questions)

Note: Attempt any two questions out of the following three questions. Each question carries 7½ marks.

Short answer is required not exceeding 200 words.

2×7½=15

- 6. Write short notes on following:
 - (i) Enumerated Data Type
 - (ii) String
 - (iii) Macro Expansion
 - (iv) File Inclusion
- 7. Write a program in C to print following pattern:
 - 2 3 4 5 6
 - 3 4 5 6 7
 - 4 5 6 7
 -
 - 5 6 7
 - 6 7
 - 7

What are different file opening modes? Write a program in C that reads a series of integer numbers from a file named INPUT and write all odd numbers to a file to be called ODD and all even numbers to a file to be called EVEN.

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Section-C

(Long Answer Type Questions)

Note: Attempt any three questions out of the following five questions. Each question carries 15 marks.

Answer is required in detail. 3×15=45

- (a) Write a program to calculate sum of the following series upto first 100 terms:

 \[\int = 1^4 + 3^4 + 5^4 + 7^4 ---- 100 \] Terms.
 \]
 - (b) Given an array of 20 integers. Write a program in C to search for a given integer in that array.
- 10. (a) Write a program in C to multiply two matrics of N×N dimension.
 - (b) Declare a structure which contains the following members and write a program in C to list all students who scored more than 75 marks. Roll No., Name, Father's Name, Age, City, Marks
- (a) Explain dynamic memory concept with proper example.
 - (b) Explain different type of modes and I/O function in file handling.

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- (a) Define recursive function. Write a program to find factorial of a number with recursive function.
 - (b) Write a program to check whether a given number is Armstrong number or not.
- 13. (a) Write a program to copy a string to another string using standard library function. Use dynamic memory allocation to accept string.
 - (b) Differentiate between call by value and call by reference.