A

Printed Pages : 4

(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.

1. Write various data type supported in C with example. 3

2. What are headers files ? Why they are important ? 3

3. Write limitations of switch case. 3

4. Differentiate between scope and lifetime of a variable. 3

5. Define preprocessor and its usage in programming. 3

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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  7
3  4  5  6  7
4  5  6  7
5  6  7
6  7
7
```

8. 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

9. (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

11. (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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12. (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.

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