

B Tech.
2022
2nd Sem.

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Even Semester Examination 2022

Paper Name: Introduction to C-Programming
Time: 3 Hours

Paper Code: BFTC 203
Maximum Marks: 75

Section- A

Note: Attempt ALL questions. Each question carries 5 marks.

- Question 1.** What are different type of errors in C program? Explain each with suitable example.
- Question 2.** Write a C program to check whether a number entered through the keyboard is even or odd.
- Question 3.** Write a C program to find sum of all digits of an n digit number.
- Question 4.** Write a C program to find sum of the following series, if number of terms is entered through the keyboard.

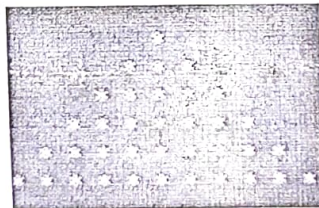
1+5+9+13+17+.....

- Question 5.** Explain Operator precedence and operator associativity with proper example.
- Question 6.** Write a C program using function to calculate factorial of any integer entered through keyboard.
- Question 7.** Write a C program to find largest among three numbers.

Section-B

Note: Attempt any FOUR questions. Each question carries 10 Marks.

- Question 1. (A)** Write C program to check whether a number is prime or not,
- (B)** Which of the following variables name is/are valid or invalid (give reason)
- i. 2sum ii. Sum+123 iii. Sum_123 iv. _sum
- Question 2.** What is an array? Explain with examples. Write a C program to swap smallest and largest element in n element array.
- Question 3.** What do you understand by sorting? Write a C program to sort 'n' element array using Bubble Sort.
- Question 4.** Write a program to print following pattern on your screen:



Question 5. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

Percentage $\geq 90\%$: Grade A

Percentage $\geq 80\%$: Grade B

Percentage $\geq 70\%$: Grade C

Percentage $\geq 60\%$: Grade D

Percentage $\geq 40\%$: Grade E

Percentage $< 40\%$: Grade F.

Question 6. Write notes on any **Four**(with suitable examples):

- | | | |
|-----------------------|------------------------|---------------------|
| a) while and do while | b) if else ladder | c) break |
| d) continue | e) Structure and union | f) printf and scanf |