

**ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT
NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA
SESSIONAL-I**

**BASICS OF PROGRAMMING (CSIR-11)
SECTION: EC-A, EC-B, EC-C**

Max. Marks: 15

Time: 50 mins

Note: Attempt any 3 Questions.

The candidate before starting the exam, please check the question paper for any discrepancy.

1. (a) What will be the output of the following program: [2.5]

<pre>(i) #include<stdio.h> #include<conio.h> void main() { float num=1.5; switch(num) { case 1: printf("1"); case 2: printf("2"); default: printf("0"); } getch(); }</pre>	<pre>(ii) #include<stdio.h> void main() { char k=5; clrscr(); switch(k) { default: printf("last\n"); case 4: break; printf("one\n"); case 2: printf("two\n"); break; } getch(); }</pre>
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(b) Explain with example: (i) Arithmetic Assignment Operators (ii) Logical Operators. [2.5]

2. (a) Briefly explain the difference between Compiler and Interpreter. [3]

(b) What is difference between while and do-while statement. [2]

3. Write a menu-driven program that takes an integer value. If 1 is entered, find the factorial of any number, if 2 is entered, calculate the sum of first n natural numbers using while loop and if 3 is entered, check whether the number is prime or not. [5]

4. Write a Program to create an array, and compute the Mean, variance and Standard deviation. [5]