

20-3-2018



DOON UNIVERSITY, DEHRADUN
Mid Semester Examination, 2nd Semester, 2018
Academic Year 2017-18 (Even Semester)
Computer Science Department, School of Physical Sciences
Integrated MSc Mathematics/Physics/Chemistry
CSG-151 Programming in C

Time Allowed 2.00 Hours

Maximum Marks: 30

SECTION : A

Attempt all the questions. All questions carry equal marks. (2+2+2)

Q.1) What are Pointers ? How to use Pointers in C?

Q.2) Explain the use of *Printf* and *scanf* function with example..

Q.3) What is the difference between *Call by Value* and *Call by Reference*?

SECTION : B

Attempt all the questions. All questions carry equal marks. (4+4+4)

Q.1) Compute the value of X and Y: (2+2)

1. `x=5,y=3;`
`if(x<y++)`
`x +=2;`
`if(x>y)`
`y +=2;`
2. `x=1,y=4;`
`for(i=1;i<4;i +=2)`
`{ x +=i; y =(i++);`
`}`

Q.2) Write a program that implements the following sum:

1 + 3 + 5 + 7 + 9 + + 101 and prints out the result.

Q.3) Write a program to find whether the year is leap or not:

1) Use the logical operator

2) Use if-else.

SECTION : C

Attempt all the questions. All questions carry equal marks. (6+6)

Q.1) Swap two numbers using: (3+3)

1) *Call by value.*

2) *Call by reference.*

Q.2) Write a program using: (2+2+2)

(a) *Break Statement.*

(b) *Continue Statement.*

(c) *do while loop.*