


National University of Computer and Emerging Sciences, Lahore Campus

	Course Name:	Introduction to Computing	Course Code:	CS101
	Program:	BS(CS)	Semester:	Spring 2018
	Duration:	1 hr	Total Marks:	25
	Paper Date:	Monday, 26 Feb 2018	Weight	15
	Section:	ALL	Page(s):	3
	Exam Type:	Sessional 1		

Student : Name: _____ Roll No. _____ Section: _____

- Instruction/Notes:**
1. Solve the exam on this question paper. No rough sheets allowed!
 2. Use of calculator is **not allowed**.

Question 1: What is the output of following codes?

[3+3+4 Points]

<pre>int n = 10; for (int i = 0; i < n / 2; ++i) cout << i - 2 * n;</pre>	
<pre>int x = 12, y = 10, z = 5; cout << (--x > y) x/--z + 4 <= 8 && z < ++y - x;</pre>	
<pre>int n = 10; for (int i = 0, j = n-1; i < n; i++, j-=2) { cout << ":"; if (j>i++) cout << ")"; else if (j >= n - i) cout << " "; else cout << "("; cout << "endl \n"; }</pre>	

Question 2: Correct all errors logical, or syntax in following code.

[5 Points]

<pre>int main(){ int value = 1; int number = 9; do { cout << number << " " << value << " " << endl; value++; } while ((value < 11) (number > value % number)); }</pre>	
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Question 3: Write C++ program for the following problem.

[10 Points]

Input: Positive integer's **n** and **m**

Output: Number of integers between **n** and **m** (where **n<m**) that divide the sum **n+m**.

For example, if **n=8**, and **m=12**, the program returns 1 (because 10 is the only number between n and m which divides **n+m=20**); and if **n=4** and **m=28**, the program returns 2 (because 8 and 16 are two numbers between n and m which divide **n+m=32**)

