Department of Statistics & Operations Research College of Science King Saud University CSC 201

First Midterm Exam

	Second Semester 1438 – 1439
Student's Name:	
Student's Number:	
Section's Number:	
Teacher's Name:	
	following code fragment write to the monitor?
int sum = 14;	
if $(sum < 20)$	20XX 1
System.out.pri	nt("Under");
else	(IIO) II)
System.out.pri	
System.out.prin	tin("the limit.");
[a] Under [b] Over [c] Under the limit [d] Over the limit
B. The statement	i++; is equivalent to
	i = i + 1; [c] $i = i - 1;$ [d] $i;$
C. Which looping	process checks the test condition at the end of the loop?
[a] for loop [d] no looping process	b] while loop [c] do-while loop checks the test condition at the end
	llowing is a correct comment?
	b) ** Comment ** c) /* Comment */ d) { Comment}
E. Which of the fo	ollowing is the correct operator to compare two variables? o) = c) equal

Question 2 (2.5 Marks)

Write a program that takes a positive integer from the user and prints the number. Display an error message if the user enters a negative number.

Sample Run: Enter the Positive number: 5 The Positive number is 5 Enter the Positive number: -5 It is an negative number.

include = ioskeam> wing namerpace stat; int mounn () int a: Course " Enter the positive number: " Cum >> a; Coul as " The positive number is " as a weak, if (0>=0) Course " It is an argetive number " or endly else gutuan 01

Question 3 (2.5 Marks)

Using a while loop, write a program that reads integers from a user untill their sum is Sample Run:

```
Enter a number: 46
Sum is now 46
Enter a number: 42
Sum is now 88
Enter a number: 20
Sum is now 108
The sum has reached 100
  # include <iostream>
    using names pace std;
int main ()
        sum = 0 sum ;
While (sum <= 100)
              cont << " Enter a number :« endl;
                Sum = Sum + a;
         Cout << "The Sum is now "< Sum wendle
Cout << "The Sum has reached too. "we
return o;
```

Question 4: (5 Marks)

Enter a number: 4

Even

Using switch statement, write a program that reads a number and prints whether the number is even or odd

Sample Run

```
Enter a number: 5
Odd
Enter a number: 7
Odd
  # include < iostream>
    Wring namespace stol;
    int main ()
        int value;
         contre "Enter a number";

contre value;

Switch (value % 2)
     case 0; cont « "Even integer \n"; breake
default: cont « "odd integer \n";
}
return 0;
```