		King Saud University College of Computer and Information Sciences Computer Science Department				
		Course Code:	CSC 111			
		Course Title:	Introduction to Programmir	ng		
		Semester:	Fall 2018-19			
		Exercises Cover Sheet:	Mid 1 Ex	am		
		Duration: 90 min				
Student Na	ame:					
0						
Student ID):					
Student Se	ection No.					
Tick the Relevant	Computer Science B.Sc. Program ABET Student Outcomes			Question No. Relevant Is Hyperlinked	Covering %	
√	a) Apply knowledge of computing and mathematics appropriate to the discipline;			1,2	50%	
	b) Analyze a prappropriate to its					
	c) Design, imp					
	d) Function eff					
	e) Understanding of professional, ethical, legal, security, and social issues and responsibilities;					
	f) Communica					
	g) Analyze the local and global impact of computing on individuals, organizations and society;					
	h) Recognition of the need for, and an ability to engage in, continuing professional development;					
√	i) Use current techniques, skills, and tools necessary for computing practices.			1,2	50%	
	j) Apply mathe science theory ir that demonstrate					
	k) Apply desig systems of varyi					

Question 1. (7 Marks)
Put your answers of the question 1 (<u>multiple choice questions</u>) in the following table:

Question	Answer
1	
2	
3	
4	
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11	
12	
13	
14	

Question 1: MCQ (7 marks)

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1. What is the output of this program?
  class Output {
     public static void main(String args[]) {
       int a = 1, b = 2, c, d;
       c = ++b;
                        d = a++;
       c++;
                    b++;
                                 ++a;
       System.out.println(a + " " + b + " " + c);
     } }
a) 3 3 4
b) 3 4 3
c) 3 4 4
d) 3 2 4
2. What is the output of this program?
  class variable_scope{
     public static void main(String args[])
       int x = 5;
       {
            int y = 6;
            System.out.print(x + "" + y);
       System.out.println(x + "" + y);
a) 5 6 5 6
b) 5 6 5
c) Runtime error
d) Compilation error
3. What is the output of this program?
  class operators {
     public static void main(String args[]){
       int var1 = 5;
       int var2 = 6;
       int var3;
       var3 = ++ var2 * var1 / var2 + var2;
       System.out.print(var3);
     }
  }
a) 10
b) 11
c) 12
d) 56
```

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4. What will be printed as the output of the following program?
           public class testincr {
           public static void main(String args[]) {
             int i = 0;
             i = i + + + i;
             System.out.println("i = " + i++);
            (b) i = 2
                         (c) i = 1 (d) i = 3
                                                  (e) Compilation Error.
(a) i = 0
5. Which of these methods of String class is used to obtain character at a specified index?
a) char()
b) Charat()
c) charAt()
d) charat()
6. What is the output when you try to compile and run the following code?
public class Switch {
public static void main(String[] args){
int i = 1, j;
switch( i ){
case 0: i = 0;
      System.out.print( j );
case 1: j = 1;
      System.out.print( j );
case 2: j = 2;
      System.out.print( j );
default: j = -1;
        System.out.print( j );
}}}
                                              d) Compilation error
a) 12
               b) 1
                               c) 12-1
7. What does the following statement print?
  System.out.print((double)((int)(5/2.0)));
a) 2
b) 2.5
c) 2.0
d) Compilation error
8. After the execution of the following code, what will be the values of x, y and z?
int x, y, z;
y = 1;
z = 5;
x = 0 - (++y) + z++;
a) x = 4, y = 2, z = 6
                                      b) x = 3, y = 1, z = 5
c) x = 3, y = 2, z = 6
                                      d) x = -7, y = 1, z = 5
```

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9. What is the output of the following code segment?
public class MyClass {
  public static void main(String [] args) {
   char x = 'A';
while(x != 'D'){
       switch(x)
               case 'A':
                       System.out.print(x);
                      x = 'D';
               case 'B':
                      System.out.print(x);
                      x = 'C';
                      break;
               case 'C':
                      System.out.print(x);
                      x = 'D';
               default:
                      break;
}}}
a) AD
                      b) ADCD
                                                     c) ADC
                                                                                    d) AC
10. What is the output of this program?
  class Output
     public static void main(String args[])
        int x, y = 1;
        x = 10;
        if (x != 10 \&\& x / 0 == 0)
          System.out.println(y);
        else
          System.out.println(++y);
     }
         }
a) 1
b) Runtime error owing to division by zero in if condition
c) 2
d) Syntax error
11. What is the output of the following code:
 String ali=new String("ali");
 System.out.print(ali.equals("ali"));
 System.out.print(ali.equalsIgnoreCase("Ali"));
                                                     d) falsefalse
   a) falsetrue
                      b) truefalse
                                      c) truetrue
```

12. What output is produced by the segment of code shown below: int x = 12: if (x > 12)if (x < 15)System.out.print("BLUE"); else System.out.print("GREEN"); System.out.print("JEANS"); a) BLUE b) GREENJEANS c) JEANS d) BLUEJEANS 13. what is the output of the following code fragment: int x=1; while(x++!=4) System.out.println(x++); b) infinite loop a) 246 c) 2468 d) Syntax error 14. What output is produced by the segment of code shown below: int x = 12; if (x > 12){ if (x < 15)System.out.print("BLUE"); }else System.out.print("GREEN"); System.out.print("JEANS"); a) BLUE b) JEANS c) GREENJEANS d) BLUEJEANS

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Question 2: (3 marks)
a- Convert the following switch statement to if else statement: (1 marks)
switch (var1) {
default:
       x = 1;
case 9:
       x = 2;
case 7:
       x = 3;
Answer:
b- Write a java statement to decrease the employee salary (salary) by 5% of his base salary (base) for
each absent day (absent). (1 mark)
Hint: Assume that base salary and absent variables are declared and initialized.
Example: base=2000, absent=3 then salary will be 1700
Answer:
c- What is the output of this program? (1 mark)
class Output{
public static void main(String args[])
    { int a,b,c,d;
       a=b=c=d=20;
       a+=b-=c*=d/=20;
```

System.out.println(" $a="+a+"b="+b+"c="+c+"d="+d$);}}				
Answer:				

Result								
Question No.	Relevant Student Outcome	SO is Covered by %	Full Mark	Student Mark	As	sessor's Feed	lback	
1	а	70	7					
2	i	30	3					
Totals		100%	10					
I certify that the work contained within this assignment is all my own work and referenced where required. Student Signature: Date:				ork	Feedback Received: Student Signature: Date:			