		King S College of Cor				
		Course Code:	CSC 111			
		Course Title:	ng			
		Semester:				
		Exercises Cover Sheet:	Mid 1 Ex	am		
		Duration: 90 min	·			
Student N	ame:					
Otrode at 15	\.					
Student ID	).					
Student S	ection No.					
Tick the Relevant	Computer	Science B.Sc. Program AE	BET Student Outcomes	Question No. Relevant Is Hyperlinked	Covering %	
V	a) Apply know discipline;	atics appropriate to the	1,2	50%		
	b) Analyze a p appropriate to its	roblem, and identify and define the solution;				
	c) Design, imp					
	d) Function ef					
	e) Understanding of professional, ethical, legal, security, and social issues and responsibilities;					
	f) Communica					
	g) Analyze the organizations an					
	h) Recognition professional dev	n of the need for, and an ability to relopment;				
√	i) Use current practices.	techniques, skills, and tools nec	1,2	50%		
	science theory in	ematical foundations, algorithmic n the modeling and design of con es comprehension of the tradeoff				
	k) Apply desig	n and development principles in ng complexity;				

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**Question 1.** (6 Marks)
Put your answers of the question 1 (<u>multiple choice questions</u>) in the following table:

Question	Answer
1	
2	
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```
1) What is the output of the following program?
public class CSC111Mid1Questions {
    public static void main(String[] args)
         int a = 34, b = 21, c = a+++++b, d = --a + --b + c--;
         System. out.println("A" + a + "B" + b + "C" + c + "D" + d);
    }
}
a) A34B22C55D111
b) A33B21C55D111
c) A33B22C55D111
d) A34B21C55D111
2) What is the output of the following program?
public class CSC111Mid1Questions {
    public static void main(String[] args)
         double a = 5.4;
         int b = 4;
         System.out.println((float)a/b-4);
    }
}
a) -2.0
b) -2
(c) -2.65
d) Runtime error
3) What is the output of the following program?
public class CSC111Mid1Questions {
    public static void main(String[] args)
         String aA = "123";
         char $1 = '1';
         System.out.println( aA.charAt(0).equals($1);
    }
}
a) Runtime error
b) Compilation error
c) 1
d) 2
```

```
4) What is the output of the following program?
public class CSC111Mid1Questions {
    public static void main(String[] args)
     int x = 8, y;
         \overline{\text{System.out.println}}(++x * --y + " " + --x);
    }
}
a) Compilation error
b) 7
c) -98
d) 98
5) What is the output of the following program?
public class CSC111Mid1Questions {
    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+" "+b+" "+c+" "+d);
    }
}
a) 40 20 0 0
b) Compilation error
c) Runtime error
d) 20 0 0 20
6) What is the output of the following program?
public class CSC111Mid1Questions {
    public static void main(String[] args)
     int a=1,b=2,c=3,d=4,e=5,f=6;
         double answer = a*((b*10)/d-c*(f%e));
         System.out.println(answer);
    }
}
a) 2
b) 2.0
```

```
c) 3.0
```

d) Compilation error

```
7) What is the output of the following program?
public class CSC111Mid1Questions {
   public static void main(String[] args)
        System.out.println(true && false != false || false == false);
}
a) false
b) 1
c) true
d) 0
8) What is the output of the following program?
public class CSC111Mid1Questions {
    public static void main(String[] args)
     {
      String a = "about";
      char b = a.charAt(2-2\%2);
      System.out.println("BBBB is " + b);
}
a) Compilation error
b) BBB is a
c) BBB is b
d) BBB is o
9) What is the output of the following program:
      boolean var1 = false;
      boolean var2 = true;
      if (!var1)
            System.out.println(var1);
      else
            System.out.println(var2);
a) 0
b) 1
c) true
d) false
10) What will be the output of the program if i = 1 and j = 2?
      if(++i > j--)
            i++;
      System.out.println(i + " " + j);
```

```
a) i = 3 and j = 1
b) i = 2 and j = 1
c) i = 3 and j = 2
d) i = 2 and j = 1
```

```
11) Given x = 8, y = 0, z = 1, what will be displayed by the following statement?
      if (!(x > 0 \&\& y < 0))
      System.out.println("Yes");
     else if (z > 0)
      System.out.println("No");
a) No
b) Yes
  No
c) Yes
d) Nothing
12) What will be the output of the following code?
      int sum = 12;
      int i=5, j=6;
      if (i < 7 && j < 6) {
            sum += i;
            ++i; j = i + 1;
      }
      System.out.println(sum--);
a) 17
b) 11
c) 12
```

13) What is x after the following switch statement is executed?

```
int x = 3;
switch (x) {
case 3:
        x = 1;
case 4:
        x = 2;
        break
case 2:
        x = 3;
}
System.out.println(x);
```

d) 4

**14)** What is the output of this code, if any?

a) 1b) 3c) 2

d) compilation error

```
int number = 3;
     if ((number % 2) != 0)
           Number/=2;
     else
           Number -= 1;
     System.out.print(number);
a) 1
b) 1.5
c) Compilation error
d) 3
15) What is the output of this code, if any?
                 double var1 = 275 / 100;
                 double var2 = (275 / 10) % 10;
                 double var3 = 275 % 10;
                 System.out.println(var1 + " " + var2 + " " + var3);
a) 2.75 7.5 5.0
b) 2 7 5
c) 2.0 7 5.0
d) 2.0 7.0 5.0
16) Which of the following three if statements are equivalent?
      1. if (a == b) {
                 if (c == d)
                       a = 1;
                 else b = 1;}
     2. if (a == b)
                 if (c == d) a = 1;
     else b = 1;
     3. if (a == b) {
                 if (c == d)
                       a = 1;
                 else b = 1;
  a) 1 and 2
  b) 1 and 3
  c) 2 and 3
  d) None of them are equivalent
17) What will be the output of the following code?
  for(int i=1; i<=10; i++);
  System.out.print(i);
  a) 12345678910
  b) <u>11</u>
  c) Error
  d) 12345678910
```

**18)** What will be the output of the following code?

```
int i;
for(i=1; i<=10; i++);</pre>
```

```
System.out.print(i);
```

- a) <u>12345678910</u>
- b) <u>11</u>
- c) Error
- d) 12345678910
- 19) What will be the output of the following code?

```
int m = 0;
while (m++ < 2)
   System.out.print(m + " ");
```

- a) 012
- b) 12 c) 2
- d) 1
- 20) What will be the output of the following code?

```
int n = 0;
int sum = 0;
     while( n <= 6 )
         sum += n++;
     System.out.println("sum = " + sum);
```

- a) Sum = 21
- b) Sum = 28
- c) sum = 21
- d) sum = 28

Result									
Question No.	Relevant Student Outcome	SO is Covered by %	Full Mark	Student Mark	Α	ssessor's Feedback			
1	а	60	6						
2	i	40	4						
Totals		100%	10						
	ed where require		nssignment is all my own work  Date:		ork	Feedback Received: Student Signature: Date:			