1. **What will be the output of the following pseudo-code statements?**

```
integer a = 456, b, c, d =10
b = a/d
c = a - b
print c
```

- ○ 410
- ○ 410.4
- ○ 411.4
- ◉ 411

2. **What will be the output of the following pseudo-code statements?**

```
integer a = 984, b, c, d =10
print remainder(a,d) // remainder when a is divided by d
a = a/d
print remainder(a,d) // remainder when a is divided by d
```

- ◉ 48
- ○ Error
- ○ 84
- ○ 44

3. **What will be the output of the following pseudo-code statements?**

```
integer a = 984, b=10
//float is a data-type to store real numbers.
float c
c = a / b
```

- ○ 984
- ○ 98.4
- ◉ 98.0
- ○ Error

4. **What will be the output of the following pseudo-code statements:**

```
integer a = 984
//float is a data-type to store rational numbers.
float b= 10, c
c = a / b
print c
```

- ○ 984
- ○ Error
- ◉ 98.4
- ○ 98

5.

What would be the output of the following pseudocode?

```
Integer a, b, c
Set a = 8, b = 51, c = 2
c = (a ^ c) ^ (a)
b = b mod 4
Print a + b + c
```

- (●) 13
- ( ) 17
- ( ) 26
- ( ) 16

6. What will be the output of the following pseudocode?

```
Integer a, b
Set a = 15, b = 7
a = a mod (a - 3)
b = b mod (b – 3)
a = a mod 1
b = b mod 1
Print a + b
```

- ( ) 15
- ( ) 7
- ( ) 2
- (●) 0

7. Consider the following pseudocode:
What would be the output of this program if the input is 9?

```
START
Integer NumHours, Regular, Overtime, PayAmount, RegPay, OverPay
GET NumHours
SET Regular = 8
SET RegPay = 10
SET OverPay = 5
SET Overtime = NumHours - Regular
IF(Overtime>0)
   THEN
SET PayAmount = (Regular * RegPay) + (Overtime * OverPay)
   ELSE
SET PayAmount = NumHours * RegPay
END IF
Print 'The amount to be paid is: ', PayAmount
END
```

- ( ) The amount to be paid is: 90
- ( ) The amount to be paid is: 95
- ( ) The amount to be paid is: 80

◉ The amount to be paid is: 85

8. What will be the output when following program is executed?

```
Set copper_percentage = 100
Set UNS = 66099
if(copper_percentage < 90 and UNS > 70000 and UNS < 79999) then
display "Cast"
end-if
if(copper_percentage >= 90 and UNS > 64700 and UNS < 70000) then
display "Wrought"
end-if
if(copper_percentage > 90 and UNS > 66999 and UNS < 70000) then
display "Rod"
end-if
```

- ○ Cast
- ◉ Wrought
- ○ Rod
- ○ Error

9. What will be the output of the following pseudocode?

```
Set length = 5
Set breadth = 7
Set area = length * breadth
Set perimeter = 2 * (length + breadth)
if area > perimeter then
display "Area is greater than perimeter."
else
display "Area is lesser than perimeter."
end-if
```

- ○ Area is lesser than perimeter
- ◉ Area is greater than perimeter
- ○ Error
- ○ Not answered

10.

```
What will be the output of the following pseudocode?
Integer p,q,r
Set p=2,q=7,r=-1
p=p+q+r-q
q=p+r-q
if(p>q)
        print "good bye”
else
        print “take care”
```

- ○ good bye take care

- (●) good bye
- ( ) take care
- ( ) None

11. What will be the output of the following pseudocode?

```
Integer a,b,c
Set a= 8,b= 10,c= 6
if(a>c AND (b+c) >a)
print a
end if
if(c>b OR (a+c) >b)
print b
end if
if((b+c) mod a equals 0)
print c
end if
```

- (●) 8 10 6
- ( ) 0
- ( ) 6
- ( ) 4

12. What will be the output of the following pseudo code ?

```
Input m =9,n = 6
m = m + 1
n = n + 1
m = m + n
if(m>n)
   print m
else
   print n
```

- (●) 17
- ( ) 10
- ( ) 5
- ( ) 6

13. What will be the output of this code?

```
i = 1
repeat until i+7<=8 {
```

```
    i = i + 1
}
print(i+6)
```

- (●) 8
- ( ) 1 1 1 1 1 1 1
- ( ) 9
- ( ) 1

14. What is the output of this code?

```
a = 1
b = 2
c = 3
d = 4
n = 1
Repeat until(n <= 5):
    c = a * c
    d = a * d
    print(c)
    n = n + 1
```

- ( ) 1 1 1 1
- ( ) 2 2 2 2
- (●) 3 3 3 3
- ( ) 4 4 4 4

15. What will be the output of this code?

```
a = 8
b = 10
c = b - a
Repeat till(c<=2){
    print(c)
    c=c+1
}
```

- ( ) 2 1 2000
- ( ) -2 -1 0 1 2
- ( ) 2 1 0 -1 -2
- (●) 2

16. What will be the output of the following pseudocode?

```
Integer a, b, c
Set b = 1, c = 1
for(each a from 1 to 3)
    b = b >> 1
    c = c << b
End for
```

Print b + c

[Note: >> - Bitwise right shift operator, it takes two numbers, right shifts the bits of the first operand, the second operand decides the number of places to shift, << - is left shift operator, it takes two numbers, left shifts the bits of the first operand, the second operand decides the number of places to shift]

- ○ 0
- ○ 2
- ○ None of the mentioned options
- ◉ 1

17. What will be the output of the following pseudocode?

```
Integer a, b, c
Set b = 10, a = 1
for(each c from 1 to 2)
   a = (a+c) * c
   b = b - c
End for
if(0)
   b=a-1
   a=a-1
   a=b+1
Else
   a=b+1
   b=a-1
   a=a-1
End if
Print a + b + c
```

[Note: If(x) gets executed if the value inside if(), i.e., x is not zero]

- ○ 20
- ○ 25
- ○ 10
- ◉ 17

18. How many times the following pseudocode will print "btech"?

```
Integer a,b
for(each a from 0 to 3)
for(each b from 0 to a)
print "btech"
end for
end for
```

- ○ 8 times
- ○ 9 times
- ◉ 10 times
- ○ 11 times