ITS-303 Python practical test -001

(Line numbers are only present in for reference purposes)

NAME:_____

Q1 What will be the output of the following code snippet?	
1 2 3 4 5 6 7 8 9 10 11	d = {} d[1] = 1 d['1'] = 2 d[1] += 1 sum = 0 for k in d: sum += d[k] print(sum)
A	2
B	1
C	4
D	3
Comments/ explanation (Optional)	

Q2 The 0o prefix means that the number after it is denoted as:	
A	binary
B	octal
C	decimal
D	hexadecimal
Comments/ explanation (Optional)	

Q3 Which of the following for loops would output the below number pattern?

```
1  11111
2  22222
3  33333
4  44444
5  55555
```

A	`for i in range(1,5):` `  print(str(i) * 5)`
B	`for i in range(1,6):` `  print(str(i) * 5)`
C	`for i in range(1,6):` `  print(i,i,i,i,i)`
D	`for i in range(0,5):` `  print(str(i) * 5)`
Comments/ explanation (Optional)	

Q4 What is the expected output of the following code?

```
1  x = 1
2  y = 2
3  x, y, z = x, x, y
4  z, y, z = x, y, z
5  print(x, y, z)
```

A	1 2 1
B	1 1 2
C	1 2 2
D	2 1 2
Comments/ explanation (Optional)	

Q6 The ABC organics company needs a simple program
that their call center will use to enter survey data for a new coffee variety.

The program must accept input
and return the average rating based on a five-star scale.

The output must be rounded to two decimal places.

You need to complete the code to meet the requirements.

```
 1  sum = count = done = 0
 2  average = 0.0
 3
 4  while done != -1:
 5      rating = XXX
 6      if rating == -1:
 7        break
 8      sum += rating
 9      count += 1
10
 1  average = float(sum / count)
12
13  YYY + ZZZ
```

What should you insert instead of XXX, YYY and ZZZ?

A
```
XXX -> float(input('Enter next rating (1-5), -1 for done'))
YYY -> print('The average star rating for the new coffee is: '
ZZZ -> format(average, '.2f'))
```

B
```
XXX -> float(input('Enter next rating (1-5), -1 for done'))
YYY -> print('The average star rating for the new coffee is: '
ZZZ -> format(average, '.2d'))
```

C
```
XXX -> print(input('Enter next rating (1-5), -1 for done'))
YYY -> print('The average star rating for the new coffee is: '
ZZZ -> format(average, '.2f'))
```

D
```
XXX -> print(input('Enter next rating (1-5), -1 for done'))
YYY -> print('The average star rating for the new coffee is: '
ZZZ -> format(average, '.2f'))
```

Q7 What is the expected output of the following code if the user enters 2 and 4?	
1 2 3	x = input() y = input() print(x + y)
A	4
B	24
C	6
D	2
Comments/ explanation (Optional)	

Q8 What will be the output of the following code snippet?	
1	print(3 / 5)
A	0.6
B	6/10
C	None of the above.
D	0
Comments/ explanation (Optional)	

Q9 What will be the output of the following code snippet?	
1	a = [1, 2, 3, 4, 5, 6, 7, 8, 9] print(a[::2])
A	[1,2,3]
B	[1, 3, 5, 7, 9]
C	[8, 9]
D	[1, 2]
Comments/ explanation (Optional)	

Q10 What is the expected output of the following code?	
1 2	x = '\'' print(len(x))
A	2
B	The code is erroneous.
C	1
D	0
Comments/ explanation (Optional)	

Q11 What is the expected output of the following code? (**)	
1 2	The digraph written as #! is used to:
A	make a particular module entity a private one.
B	tell an MS Windows OS how to execute the contents of a Python file.
C	create a docstring.
D	tell a Unix or Unix-like OS how to execute the contents of a Python file.
Comments/ explanation (Optional)	

Q12 What is the expected output of the following code?	

1
2
3
4
5
6
7
8
9
10
11
12
	x = True
	y = False
	z = False
	
	if not x or y:
	    print(1)
	elif not x or not y and z:
	    print(2)
	elif not x or y or not y and x:
	    print(3)
	else:
	    print(4)

A	3
B	2
C	1
D	4
Comments/ explanation (Optional)	

Q13 How many stars will the following snippet print to the monitor?

```
i = 4
while i > 0:
    i -= 2
    print('*')
    if i == 2:
        break
else:
   print('*')
```

A	0
B	2
C	The snippet will enter an infinite loop.
D	1
Comments/ explanation (Optional)	

Q14 What is the expected output of the following code?

```
list1 = [1, 3]
list2 = list1
list1[0] = 4
print(list2)
```

A	[1, 3]
B	[1, 4]
C	[4, 3]
D	[1, 3, 4]
Comments/ explanation (Optional)	

Q15 What is the expected output of the following code?

```
list1 = [1, 3]
list2 = list1
list1[0] = 4
print(list2)
```

A	[1, 3]
B	[1, 4]
C	[4, 3]
D	[1, 3, 4]

Comments/ explanation (Optional)	

Q16 What is the expected output of the following code?	
1 2	num = '7' * '7' print(num)
A	The code is erroneous.
B	77
C	49
D	7777777
Comments/ explanation (Optional)	

Q17 What is the expected output of the following code?	
1 2 3	nums = [3, 4, 5, 20, 5, 25, 1, 3] nums.pop(1) print(nums)
A	[1, 3, 4, 5, 20, 5, 25]
B	[3, 1, 25, 5, 20, 5, 4]
C	[1, 3, 3, 4, 5, 5, 20, 25]
D	[3, 5, 20, 5, 25, 1, 3]
Comments/ explanation (Optional)	

Q18 What value will be assigned to the x variable?	
1 2 3	z = 3 y = 7 x = y < z and z > y or y > z and z < y
A	False
B	True
C	1
D	0
Comments/ explanation (Optional)	

Q19 Consider the following code snippet:	
1 2 3	z = 3 y = 7 x = y < z and z > y or y > z and z < y
A	w
B	x
C	z
D	y
Comments/ explanation (Optional)	

Q20 Consider the following code snippet:	
1 2 3	`z = y = x = 1` `print(x, y, z, sep='*')`
A	`1 1 1`
B	`1*1*1`
C	`The code is erroneous.`
D	`x y z`
Comments/ explanation (Optional)	

Q21 Consider the following code snippet:	
1 2 3	`data = ['Peter', 404, 3.03, 'Wellert', 33.3]` `print(data[1:3])`
A	`['Peter', 404, 3.03, 'Wellert', 33.3]`
B	None of the above.
C	`[404, 3.03]`
D	`['Peter', 'Wellert']`
Comments/ explanation (Optional)	

Q22 An operator able to check whether two values are not equal is coded as:	
A	`not ==`
B	`<>`
C	`!=`
D	`=/=`
Comments/ explanation (Optional)	

Q23 What is the expected output of the following code?	
1 2	x = 1 // 5 + 1 / 5 print(x)
A	0
B	0.2
C	0.4
D	0.0
Comments/ explanation (Optional)	

Q24 How many stars will the following code print to the monitor?	

1
2
3
4
	i = 0
	while i <= 3:
	    i += 2
	    print('*')

A	two
B	one
C	zero
D	three
Comments/ explanation (Optional)	

Q25
What would you insert instead of ???
so that the program checks for even numbers?

```
1  if ???:
2      print('x is an even number')
3
4
```

A	`x % 'even' == True`
B	`x % 2 == 0`
C	`x % x == 0`
D	`x % 2 == 1`
Comments/ explanation (Optional)	

Q26 What is the expected output of the following code?

```
1  x = 1 / 2 + 3 // 3 + 4 ** 2
2  print(x)
3
```

A	8
B	17.5
C	17
D	8.5
Comments/ explanation (Optional)	

Q27 Which of the following variable names is illegal?

A	In
B	in_
C	IN
D	in
Comments/ explanation (Optional)	

Q28 What is the expected output of the following code?	
1	`print(list('hello'))`
A	hello
B	['h' 'e' 'l' 'l' 'o']
C	[h, e, l, l, o]
D	['h', 'e', 'l', 'l', 'o']
Comments/ explanation (Optional)	

Q29 What will be the output of the following code snippet?	

1
2
3
4
5
6
	`x = 1`
	`y = 2`
	`z = x`
	`x = y`
	`y = z`
	`print(x, y)`

A	2 1
B	2 2
C	1 1
D	1 2
Comments/ explanation (Optional)	

Q30 What is the correct command to shuffle the following list?	
1 2	`import random` `people = ['Peter', 'Paul', 'Mary', 'Jane']`
A	random.shuffleList(people)
B	shuffle(people)
C	random.shuffle(people)
D	people.shuffle()
Comments/ explanation (Optional)	

Q31 What is the expected output of the following code?	
1 2 3 4	x = [0, 1, 2] x.insert(0, 1) del x[1] print(sum(x))
A	2
B	4
C	5
D	3
Comments/ explanation (Optional)	

Q32 The value thirty point eleven times ten raised to the power of nine should be written as:	
A	30.11*10^9
B	30.11E9
C	30E11.9
D	30.11E9.0
Comments/ explanation (Optional)	

Q33 isalnum() checks if a string contains only letters and digits, and this is:	
A	A function
B	A method
C	A module
D	A package
Comments/ explanation (Optional)	

Q34 When a module is imported, its contents:	
A	are executed as many times as they are imported.
B	are executed once.
C	are executed depending on the contents.
D	are ignored.
Comments/ explanation (Optional)	

Q35 What will be the output of the following code snippet?	
1 2 3 4	x = 2 y = 1 x *= y + 1 print(x)
A	1
B	4
C	None
D	2
Comments/ explanation (Optional)	

Q36 What is the expected output of the following code?	
1 2 3 4	x = 1 + 1 // 2 + 1 / 2 + 2 print(x)
A	4.0
B	3
C	4
D	3.5
Comments/ explanation (Optional)	

Q37 Which of the following variable names is illegal?	
A	TRUE
B	tRUE
C	True
D	true
Comments/ explanation (Optional)	

Q38 What is the expected output of the following code?	
1 2 3 4	data = 'abbabadaadbbaccabc' print(data.count('ab', 1))
A	5
B	3
C	4
D	2

Comments/ explanation (Optional)	

Q39 What is the expected output of the following code?	
1 2 3 4	1. z = 3 2. y = 7 3. x = y == z and y > z or z > y and z != y
A	True
B	False
C	0
D	1
Comments/ explanation (Optional)	

Q40 What is the expected output of the following code?	
1 2 3 4	x = 9 y = 12 result = x // 2 * 2 / 2 + y % 2 ** 3 print(result)
A	8
B	7.0
C	8.0
D	9.0
Comments/ explanation (Optional)	