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Started on Thursday, 9 September 2021, 1:25 PM

State Finished

Completed on Thursday, 9 September 2021, 1:26 PM

Time taken 51 secs

Grade 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of 1.00

What will be the output of the following Python code segment?

```
a = [[1,2],[3,4]]
b = [[5,6],[7,8]]
s = 0
for i in range(len(a)):
    for j in range(len(a[1])):
        s += a[i][j] * b[j][i]
print (s)
```

Answer: 69



The correct answer is: 69

Question 2

Correct

Mark 1.00 out of 1.00

Consider the following Python code.

```
x = "abcd"
y = x.replace("ab", "AB")
```

The **replace(old, new)** method in string objects can be used to obtain a string with all the occurrences of the substring "old" replaced by the substring "new" of a given string. Which of the following is correct about the code above?

Select one:

- ☐ a. 1 string object is created whose value is 'abcd'. It remains unchanged.
- ☒ b. 2 string objects are created, the first one with value 'abcd' and the second with the value 'ABcd'. Both objects remain unchanged ✓
- ☐ c. 1 string object is created with value 'abcd' and it later gets changed into 'ABcd'.
- ☐ d. 2 string objects are created. The first one with value 'abcd' and the second with value 'ABcd'. The first object later gets changed into 'ABcd'.

Your answer is correct.

The correct answer is: 2 string objects are created, the first one with value 'abcd' and the second with the value 'ABcd'. Both objects remain unchanged after creation.

Question 3

Correct

Mark 1.00 out of 1.00

Is the following a valid Python list?

```
pList = [[4.0,4.1,4.2], 5, 6, 7,"end"]
```

Select one:

- ☒ a. Yes ✓
- ☐ b. No

Your answer is correct.

The correct answer is: Yes

Question **4**

Correct

Mark 1.00 out of 1.00

What will be the output of the following Python code?

```
x = "Computer Science and Engineering"  
print (x[:3]+x[6]+x[9:12]+x[-11:-8])
```

Answer: ComeSciEng



The correct answer is: ComeSciEng

Question **5**

Correct

Mark 1.00 out of 1.00

What will be the output of the following Python code?

```
M1 = [ [ 1, 2], [3, 4] ]  
M2 = M1 * 2  
print (M2)
```

Select one:

- ☐ a. Error
- ☐ b. [[2, 4], [6, 8]]
- ☒ c. [[1, 2], [3, 4], [1, 2], [3, 4]]
- ☐ d. None of the above



Your answer is correct.

The correct answer is: [[1, 2], [3, 4], [1, 2], [3, 4]]

Question **6**

Correct

Mark 1.00 out of 1.00

Consider the following Python code segment.

```
L = [1, 2, 3]
L1 = L
L2 = L[:]
```

If executed after the above, which of the following Python statements will return False?

Select one:

- ☐ a. L == L1
- ☐ b. L is L1
- ☐ c. L == L2
- ☒ d. L is L2



Your answer is correct.

The correct answer is: L is L2

Question **7**

Correct

Mark 1.00 out of 1.00

What will be the output of the following Python code?

```
for i in range(3,2,-1):
```

```
    print('*'*i)
```

Answer: ***



The correct answer is: ***

Question **8**

Correct

Mark 1.00 out of 1.00

What will be the output of the following Python code segment?

```
a = [[1,2,3],[4,5,6],[7,8,9],[10,11,12,13,14]]
print (a[3][4] + a[1][2])
```

Answer: 20



The correct answer is: 20

Question **9**

Correct

Mark 1.00 out of 1.00

If list A is defined as A = [2, 4, 6, [8, 10, 12], 8, 10, 12], which of the following Python statements will be evaluated to be True?

- I. A[3] == A[-3:]
- II. A[-3:] == A[4:]
- III. A[3] == A[4:]

Select one:

- ☐ a. I and II only
- ☐ b. I and III only
- ☐ c. II and III only
- ☒ d. All three



Your answer is correct.

The correct answer is: All three

Question **10**

Correct

Mark 1.00 out of 1.00

What will be the output of the following Python code segment?

```
c = "moratuwa university"
word = c[-4]+c[-2]
word += c[1:3]+c[0]
print (word)
```

Answer: storm



The correct answer is: storm

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