

RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM – 602 105



RAJALAKSHMI ENGINEERING COLLEGE

GE23231
PROGRAMMING USING PYTHON

Record Note Book

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Semester:	II
Department:	CIVIL ENGINEERING
Academic Year:	2023-2024

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Started on Thursday, 14 March 2024, 11:18 AM

State Finished

Completed on Thursday, 14 March 2024, 11:19 AM

Time taken 1 min 25 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-

```
mystring="India is my country"
```

```
print(type(mystring))
```

- a. class str
- b. str
- c. <class 'str'> ✓
- d. 'str'

Your answer is correct.

The correct answer is:

```
<class 'str'>
```

Question **2**

Correct

Mark 1.00 out of 1.00

What do we use to define a block of code in Python language?

- a. Curly brace
- b. Indentation ✓
- c. Key
- d. Parenthesis

Your answer is correct.

The correct answer is:

```
Indentation
```

Question 3

Correct

Mark 1.00 out of 1.00

Which of the following declarations is incorrect in python language?

- a. xyzp = 5,000,000
- b. x_y_z_p = 5,000,000
- c. x,y,z,p = 5000, 6000, 7000, 8000 ✓
- d. x y z p = 5000 6000 7000 8000

Your answer is correct.

The correct answer is:

x,y,z,p = 5000, 6000, 7000, 8000

Question 4

Correct

Mark 1.00 out of 1.00

Which one of the following is the correct extension of the Python file?

- a. .p
- b. .cpp
- c. .python
- d. .py ✓

Your answer is correct.

The correct answer is:

.py

Question 5

Correct

Mark 1.00 out of 1.00

What will be the datatype of the var in the below code snippet?

```
var = 10  
print(type(var))  
var = "Hello"  
print(type(var))
```

- a. int and str ✓
- b. No output
- c. int and int
- d. float and str

Your answer is correct.

The correct answer is:

int and str

Question 6

Correct

Mark 1.00 out of 1.00

Which of the following [functions](#) is a built-in function in python language?

- a. print() ✓
- b. val()
- c. scanf()
- d. printf()

Your answer is correct.

The correct answer is:

print()

Question 7

Correct

Mark 1.00 out of 1.00

What will be the output of the following code snippet?

```
a = 3  
b = 1  
print(a, b)  
a, b = b, a  
print(a, b)
```

- a. 3 1
3 1
- b. 3 1 ✓
1 3
- c. 1 3
3 1
- d. No output

Your answer is correct.

The correct answer is:

3 1
1 3

Question 8

Correct

Mark 1.00 out of 1.00

Type the code to get float input from the keyboard. (No need to assign to a variable)

Answer:



The correct answer is: float(input())

Question **9**

Correct

Mark 1.00 out of 1.00

Who developed the Python language?

- a. Dennis Ritchie
- b. Guido Van Rossum ✓
- c. Von Neumann
- d. Bill Gates

Your answer is correct.

The correct answer is:

Guido Van Rossum

Question **10**

Correct

Mark 1.00 out of 1.00

What will be the output of the following code snippet?

```
print(type(5 / 2))
```

- a. obj
- b. str
- c. int
- d. float ✓

Your answer is correct.

The correct answer is:

float

[◀ Basics of Python](#)

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Started on Tuesday, 26 March 2024, 8:06 PM

State Finished

Completed on Tuesday, 26 March 2024, 8:10 PM

Time taken 3 mins 33 secs

Grade **15.00** out of 15.00 (**100%**)

Question 1

Correct

Mark 1.00 out of 1.00

An identifier can have a maximum length of ----- characters in Python.

- a. 7
- b. 50
- c. 31
- d. 79 ✓

Your answer is correct.

The correct answer is:

79

Question 2

Correct

Mark 1.00 out of 1.00

What is the output of the following code

```
x = ["apple", "banana"]
```

```
y = ["apple", "banana"]
```

```
z = x
```

```
print(x is z)
```

```
print(x is y)
```

```
print(x == y)
```

a. **True ✓**

False

True

b. **True**

True

True

c. **True**

False

False

d. **False**

False

True

Your answer is correct.

The correct answer is:

True

False

True

Question 3

Correct

Mark 1.00 out of 1.00

What is the output of the following assignment operator?

```
y = 10
```

```
x = y += 2
```

```
print(x)
```

a. Syntax Error ✓

b. 10

c. 12

d. 14

Your answer is correct.

The correct answer is:

Syntax Error

Question 4

Correct

Mark 1.00 out of 1.00

What will be the output of the following statement?

```
print(15 + 20 / 5 + 3 * 2 - 1)
```

a. 24.0 ✓

b. 19

c. 19.0

d. 12

Your answer is correct.

The correct answer is:

24.0

Question 5

Correct

Mark 1.00 out of 1.00

What is the output of the following code

```
x = 8  
y = 2  
print(x ** y)  
print(x // y)
```

- a. 0
64
- b. 64
8
4
- c. 64 ✓
4
- d. 64
0

Your answer is correct.

The correct answer is:

64

4

Question 6

Correct

Mark 1.00 out of 1.00

Which of the following statements assigns the value 35 to the variable x in Python: a. `int x = 35` b. `x := 35` c. `x = 35` ✓ d. `x ← 35`

Your answer is correct.

The correct answer is:

x = 35**Question 7**

Correct

Mark 1.00 out of 1.00

What is the two's complement of -44?

 a. `11010100` ✓ b. `10110011` c. `1011011` d. `11101011`

Your answer is correct.

The correct answer is:

11010100

Question 8

Correct

Mark 1.00 out of 1.00

What is the value of the expression $1+2^{**}3*4+12*((100+4)*10-200//10)$?

- a. 12273 ✓
- b. -24568
- c. -23679
- d. 12493

Your answer is correct.

The correct answer is:

12273

Question 9

Correct

Mark 1.00 out of 1.00

Which among the following [list](#) of [operators](#) has the highest precedence?

+, -, **, %, /, <<, >>, |

- a. <<, >>
- b. |
- c. %
- d. ** ✓

Your answer is correct.

The correct answer is:

**

Question 10

Correct

Mark 1.00 out of 1.00

What will be the value of x in the following Python expression, if the result of that expression is 2?**x>>2**

- a. 1
- b. 8 ✓
- c. 2
- d. 4

Your answer is correct.

The correct answer is:

8

Question 11

Correct

Mark 1.00 out of 1.00

What is the output of the following code

```
x = 1j  
#display x:  
print(x)  
#display the data type of x:  
print(type(x))
```

- a. 1j ✓
<class 'complex'>
- b. 1j.0
<class 'float'>
- c. 1j
<class 'object'>
- d. 1
<class 'int'>

Your answer is correct.

The correct answer is:

**lj
<class 'complex'>**

Question 12

Correct

Mark 1.00 out of 1.00

What is the value of the expression

```
print(100 / 25)
```

```
print(100//25)
```

- a. 4.0
4.0
- b. 4.0
4.00
- c. 4
4
- d. 4.0 ✓
4

Your answer is correct.

The correct answer is:

4.0

4

Question 13

Correct

Mark 1.00 out of 1.00

What is the output of the following code: print 11//2?

- a. 5.5
- b. 5
- c. Error ✓
- d. 5.0

Your answer is correct.

The correct answer is:

Error

Question 14

Correct

Mark 1.00 out of 1.00

What will be the output of statement $2^{}2^{**}2^{**}2$**

- a. 32768
- b. 16
- c. 65536 ✓
- d. 256

Your answer is correct.

The correct answer is:

65536

Question 15

Correct

Mark 1.00 out of 1.00

Which of the following type of Python operator will only print True or False in output when we use it in our program?

- a. Membership Operator
- b. Arithmetic Operator
- c. Comparison Operator ✓
- d. Assignment Operator

Your answer is correct.

The correct answers are:

Membership Operator,

Comparison Operator

[◀ Operators](#)

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[Week2_Coding ►](#)

[Dashboard](#) / [My courses](#) / [PSPP/PUP](#) / [Algorithmic Approach: Selection control structures](#) / [Week3_mcq](#)

Started on Monday, 8 April 2024, 4:53 PM

State Finished

Completed on Monday, 8 April 2024, 5:07 PM

Time taken 14 mins 10 secs

Grade **15.00** out of 15.00 (**100%**)

Question 1

Correct

Mark 1.00 out of 1.00

What will be the output of the given code?

```
x,y=1,1  
if(x ==y):  
    print("equal")  
if(x>y):  
    print("1")  
else:  
    print("0")
```

- a. 1
- b. equal ✓
- 0
- c. 0
- d. equal

Your answer is correct.

The correct answer is:

equal

0

Question 2

Correct

Mark 1.00 out of 1.00

_____ is an empty statement in Python.

- a. None
- b. pass ✓
- c. Empty
- d. Jump

Your answer is correct.

The correct answer is:

pass

Question 3

Correct

Mark 1.00 out of 1.00

What is the value of x at the end of the following sequence of instructions?

```
x = 10
x = x * 3
x = x + 5
```

- a. 15
- b. 45
- c. 30
- d. 35 ✓

Your answer is correct.

The correct answer is:

35

Question 4

Correct

Mark 1.00 out of 1.00

Can we write if/else into one line in python?

- a. Yes ✓
- b. No

Your answer is correct.

The correct answer is:

Yes

Question 5

Correct

Mark 1.00 out of 1.00

What is the output of the given below program?

```
if 1 + 3 == 7:  
    print("Hello")  
else:  
    print("Know Program")
```

- a. Hello
- b. Error
- c. Compiled Successfully, No Output.
- d. Know Program ✓

Your answer is correct.

The correct answer is:

Know Program

Question 6

Correct

Mark 1.00 out of 1.00

Python supports _____ types of control structures.

- a. 4
- b. 2
- c. 3 ✓
- d. 1

Your answer is correct.

The correct answer is:

3

Question 7

Correct

Mark 1.00 out of 1.00

selection is implemented with the help of _____ statement

- a. for loop
- b. while loop
- c. if..else ✓

Your answer is correct.

The correct answer is:

if..else

Question 8

Correct

Mark 1.00 out of 1.00

What will be the output for the following code?

```
if 1-1:  
    print("python")  
else:  
    print("0 is false")
```

- a. python
- b. Error
- c. 0 is false ✓

Your answer is correct.

The correct answer is:

0 is false

Question 9

Correct

Mark 1.00 out of 1.00

what will be the output for the following question?

```
a, b = 12, 5  
if a + b:  
    print('True')  
else:  
    print('False')
```

- a. True ✓
- b. False
- c. Error

Your answer is correct.

The correct answer is:

True

Question 10

Correct

Mark 1.00 out of 1.00

_____ is an empty statement in Python.

- a. Empty
- b. None
- c. pass ✓
- d. Jump

Your answer is correct.

The correct answer is:

pass

Question 11

Correct

Mark 1.00 out of 1.00

Which among the following codes have equivalent logic?

Code 1:

```
if(value3>1000 and value3<1006):
    if(value1=="ABC"):
        if(value2=="A"):
            value4=10
        else:
            value4=8
    elif(value1=="XYZ"):
        if(value2=="A"):
            value4=8
        else:
            value4=6
print(value4)
```

Code 2:

```
if(value3>=1001 and value3<=1005 and value1=="ABC"):
    if(value2=="A"):
        value4=10
    else:
        value4=8
elif(value3>1000 and value3<1006 and value1=="XYZ"):
    if(value2=="A"):
        value4=8
    else:
        value4=6
print(value4)
```

Code 3:

```
if(value3>1000 and value3<1006 or value1=="ABC"):
    if(value2=="A"):
        value4=10
    else:
        value4=8
elif(value3>1000 and value3<1006 or  value1=="XYZ"):
    if(value2=="A"):
        value4=8
    else:
        value4=6
print(value4)
```

- a. Code 1, Code 3
- b. Code 2, Code 3
- c. Code 1, Code 2 ✓

Your answer is correct.

The correct answer is:

Code 1, Code 2

Question 12

Correct

Mark 1.00 out of 1.00

What will be the output?

```
a=11  
b=5  
if (a%b==0):  
    print ( "hello")  
if (a//b==0):  
    print ( "hi")  
else:  
    print ("python")
```

- a. python ✓
- b. hi
- c. hello

Your answer is correct.

The correct answer is:

python

Question 13

Correct

Mark 1.00 out of 1.00

What is the output of the following code :

```
x=True  
y=False  
z=False  
if x or y and z:  
    print("YES")  
elif x and y or z:  
    print("yes")  
else:  
    print("no")
```

- a. yes
- b. Error
- c. YES ✓
- d. no

Your answer is correct.

The correct answer is:

YES

Question 14

Correct

Mark 1.00 out of 1.00

What is the output

```
a, b, c = 1, 3, 5
```

```
if a + b + c:
```

```
    print("Hello")
```

```
else:
```

```
    print("Know Program")
```

- a. Compiled Successfully, No Output.
- b. Hello ✓
- c. Know Program
- d. Error

Your answer is correct.

The correct answer is:

Hello

Question 15

Correct

Mark 1.00 out of 1.00

```
if(x=-1):  
    print("present")  
else:  
    print("absent")
```

- a. absent
- b. compilation error
- c. present ✓
- d. Runtime Error

Your answer is correct.

The correct answer is:

present

[◀ Selection control structures](#)

Jump to...

[Week3_coding ►](#)

Completed on Sunday, 28 April 2024, 10:54 PM
Time taken 21 mins 34 secs

Question 1

Complete

```
numbers = (8, 9, 11, 20)
a = 1
for num in numbers:
    a = a * num
print(a)
```

Predict the output of the program?

Answer: 15840

Question 2

Complete

Predict the output of the program?
for x in range(2, 8, 5):
 print(x)

- a. 2 3 4 5 6 7 8
- b. 2 8
- c. 2 4 6 8
- d. 2 7

```
print(i)
6/19/24, 9:41 PM += 1
if i == 2:
    continue
else:
    print(0)
```

What is the output of the following?

a. 0

1

1

1

0

b. 0

0

1

1

0

c. 0

1

2

0

d. 0

0

1

2

0

Question 4

Complete

```
for x in [0, 1, 2]:
    pass
```

Predict the output of the program?

a. Runtime Error

b. Compilation Error

c. Prints nothing

d. Prints 0,1,2

- a. while(0):
- b. while(1):
- c. while(infinite):
- d. while(i==2):

Question 6

Complete

Which of the following is a loop in python?

- a. If-Else
- b. Do-While
- c. For
- d. Break

Question 7

Complete

Syntax of range()

- a. (step, stop, start)
- b. (stop, step, start)
- c. (start, step, stop)
- d. (start, stop, step)

Question 8

Complete

```
i=1
while True:
    if i%07==0:
        break
    print(i)
    i+=1
```

Predict the output of the following?

- a. 7
- b. 0 1 2 3 4 5 6 7
- c. 1 2 3 4 5 6 7
- d. 1 2 3 4 5 6

What is the output of the following?

- a. Syntax Error
- b. True
- c. False
- d. No output

Question 10

Complete

While loop can execute a set of statements till

- a. The condition starts executing
- b. The condition is True
- c. The condition stops executing
- d. The condition is False

Question 11

Complete

A for loop can iterate over a

- a. integer
- b. bool
- c. float
- d. list

- a. sequence of lists
- b. sequence of bytes
- c. sequence of set
- d. sequence of numbers

Question 13

Complete

A for loop can iterate over a

- a. float
- b. integer
- c. list
- d. bool

Question 14

Complete

```
i = 1
while i < 4:
    print(i)
    if (i == 2):
        break
```

```
i += 1
Predict the output of the following?
```

- a. Compiler Error
- b. 1 2 3 4
- c. 1 2
- d. 2 3 4

```
for num in numbers:  
6/19/24, 9:41 PM  
print(a)
```

Week4_mcq: Attempt review | REC-PS

Predict the output of the program?

Answer: 15840

◀ Iteration control structures

Jump to...

Week4_Coding ►

[Dashboard](#) / [My courses](#) / [PSPP/PUP](#) / [Experiments based on Strings and its operations.](#) / [Week5 MCQ](#)

Started on Monday, 27 May 2024, 9:41 PM

State Finished

Completed on Monday, 27 May 2024, 10:09 PM

Time taken 27 mins 53 secs

Grade 14.00 out of 15.00 (93.33%)

Question 1

Correct

Mark 1.00 out of 1.00

What is the output of the following Code?

```
print(ord('B'))
```

Answer: 66



The correct answer is: 66

Question 2

Correct

Mark 1.00 out of 1.00

```
Python considered the character enclosed in triple quotes as String.
```

Select one:

True ✓

False

The correct answer is 'True'.

Question 3

Incorrect

Mark 0.00 out of 1.00

What will be the output of the following code?

```
a = '2'
```

```
b = '1'
```

```
print(a+b)
```

Answer: '21'



The correct answer is: 21

Question 4

Correct

Mark 1.00 out of 1.00

What will be the output of below Python code?

```
str1="power"
str1.upper()
print(str1)
```

Answer: POwER



str1.upper() returns the uppercase of whole string str1. However, it does not change the string str1. So, output will be the original str1.

The correct answer is: poWer

Question 5

Correct

Mark 1.00 out of 1.00

What is the output of the following Code?

```
print(ord('C'))
```

Answer: 67



The correct answer is: 67

Question 6

Correct

Mark 1.00 out of 1.00

What arithmetic [operators](#) cannot be used with [strings](#) in Python?

- a. - ✓
- b. +
- c. All of the mentioned
- d. *

Your answer is correct.

The correct answer is:

-

Question 7

Correct

Mark 1.00 out of 1.00

What is the output of the following Code?

```
str1="arvijayakumar"  
print(str1[::-1])
```

Answer: ramukayajivra



The correct answer is: ramukayajivra

Question 8

Correct

Mark 1.00 out of 1.00

What is the output of the following code.

```
Line1 = "And Then There Were None"  
Line2 = "Famous In Love"  
Line3 = "Famous Were The Kol And Klaus"  
Line4 = Line1 + Line2 + Line3  
print("And" in Line4)
```

- a. True ✓ The "in" operator returns True if the strings contains the substring (ie, And), else returns False.
- b. False 2
- c. True 2
- d. False

Your answer is correct.

The correct answer is:

True

Question 9

Correct

Mark 1.00 out of 1.00

What is the output of the following code ?

```
str = "Welcome"
str[2] = 'a'
print(str)
```

- a. Welcomea
- b. Error ✓ *Strings* cannot be modified
- c. aWelcome
- d. Weacome

Your answer is correct.

The correct answer is:

Error

Question 10

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

```
my_string = 'arvijayakumar'
for i in range(my_string):
    print(i)
```

- a. None
 - b. Error ✓ *range(str)* is not allowed.
 - c. arvijayakumar
 - d. 0 1 2 3 ... 12
- 1.

Your answer is correct.

The correct answer is:

Error

Question 11

Correct

Mark 1.00 out of 1.00

Strings are immutable?

Select one:

 True ✓ False

The correct answer is 'True'.

Question 12

Correct

Mark 1.00 out of 1.00

What is the output of the following Code?

```
str1="arvijayakumar"  
print(str1[2:7])
```

Answer: 

The correct answer is: vijay

Question 13

Correct

Mark 1.00 out of 1.00

What is the output of the following code ?

```
example = "arvijayakumar"  
example[0] = 'A'  
print example
```

- a. Arvijayakumar
- b. Error ✓ Strings cannot be modified
- c. arvijayakumar
- d. A

Your answer is correct.

The correct answer is:

Error

Question 14

Correct

Mark 1.00 out of 1.00

What is the index value of 'i' in string "Learning"

- a. 3
- b. 7
- c. 5 ✓
- d. 6

Your answer is correct.

The correct answer is:

5

Question 15

Correct

Mark 1.00 out of 1.00

What is the output of the following code?

```
line = "I'll come by then."
eline = ""
for i in line:
    eline += chr(ord(i)+3)
print(eline)
```

- a. O*oo#Frph#E|#wKhq1
- b. I*oo@frph@e|\$wkhq1
- c. L*oo frph e| wkhq1
- d. L*oo#frph#e|#wkhq1 ✓ This piece of code ciphers the plain text. Each character is moved to its 3rd next character by increasing the ascii value. 'l' becomes 'L', thus option (c) and (d) are ruled out. ' ' has ascii value of 32, thus it'll become 35('#), thus option (a) is ruled out as, ' ' can not remain to be '' in the ciphered text.

Your answer is correct.

The correct answer is:

L*oo#frph#e|#wkhq1

◀ Strings

Jump to...

Week5_Coding ►



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Started on Wednesday, 29 May 2024, 8:39 PM

State Finished

Completed on Wednesday, 29 May 2024, 8:58 PM

Time taken 18 mins 40 secs

Grade 13.00 out of 15.00 (86.67%)

Question 1

Correct

Mark 1.00 out of 1.00

Find the output?

```
list3=[]
list1 ='REC_CSE_ECE'
list2= list1.split('_')
for i in list2:
    list3.extend(i)
print(list3)
```

- a. Error
- b. ['R', 'E', 'C', 'C', 'S', 'E', 'E', 'C', 'E'] ✓
- c. ['REC', 'CSE', 'ECE']
- d. ['REC_CSE_ECE']

Your answer is correct.

The correct answer is:

['R', 'E', 'C', 'C', 'S', 'E', 'E', 'C', 'E']

Question 2

Correct

Mark 1.00 out of 1.00

Find the output?

```
list1 = list('REC_CSE_ECE')
print(list1.count('_'))
```

- a. 3
- b. 2 ✓
- c. Error
- d. -4

Your answer is correct.

The correct answer is:

2



Question 3

Incorrect

Mark 0.00 out of 1.00

`L=[1,5,9]``print(sum(L),max(L),min(L))`Answer: ×

The correct answer is: 15 9 1

Question 4

Correct

Mark 1.00 out of 1.00

Find the output?

```
list1 = [1, 2, 3, 4, 1, 2, 3, 1]
list2 = list1
list1.clear()
print(list2)
```

- a. [1, 1, 2, 2, 3, 3, 4,]
- b. [] ✓
- c. [1, 2, 3, 4]
- d. [1, 2, 3, 4, 1, 2, 3, 1]

Your answer is correct.

The correct answer is:

[]

Question 5

Correct

Mark 1.00 out of 1.00

What will be the output of the following Python code?

1. `>>>names = ['Amir', 'Bear', 'Charlton', 'Vaishali']`

2. `>>>print(names[-1][-1])`

- a. A
- b. Vaishali
- c. i ✓

Your answer is correct.

The correct answer is:

i

Question 6

Correct

Mark 1.00 out of 1.00

What is the output when we execute `list("welcome")`

- a. c)['emoclew']
- b. b) ['welcome']
- c. a) ['w', 'e', 'l', 'c', 'o', 'm', 'e'] ✓

Your answer is correct.

The correct answer is:

a) ['w', 'e', 'l', 'c', 'o', 'm', 'e']

Question 7

Correct

Mark 1.00 out of 1.00

What will be the output after the following statements?

```
m = ['Play']
n = ['Games', 'in', 'Python']
o = m + n
print(o)
```

- a. ['Play Games', 'in', 'Python']
- b. ['Play', 'Games', 'in', 'Python'] ✓
- c. ['PlayGames', 'in', 'Python']
- d. ['Games', 'in', 'Python', 'Play']

Your answer is correct.

The correct answer is:

```
['Play', 'Games', 'in', 'Python']
```

Question 8

Correct

Mark 1.00 out of 1.00

What will be the output after the following statements?

```
m = list(range(7,10))
print(m)
```

- a. list([7, 8, 9])
- b. 789
- c. [7, 8, 9, 10]
- d. [7, 8, 9] ✓

Your answer is correct.

The correct answer is:

```
[7, 8, 9]
```

Question 9

Incorrect

Mark 0.00 out of 1.00

Write the output of the following :

```
L = ['Amit', 'anita', 'Sumant', 'Zaid']
print(max(L))
```

Answer: Zaid



Write the output of the following :

```
L = ['Amit', 'anita', 'Sumant', 'Zaid']
print(max(L))
```

The correct answer is: anita

Question 10

Correct

Mark 1.00 out of 1.00

Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.reverse()?

- a. [3, 1, 25, 5, 20, 5, 4, 3] ✓
- b. [1, 3, 3, 4, 5, 5, 20, 25]
- c. [3, 4, 5, 20, 5, 25, 1, 3]

Your answer is correct.

The correct answer is:

[3, 1, 25, 5, 20, 5, 4, 3]

Question 11

Correct

Mark 1.00 out of 1.00

Choose a correct representation of list

- a. (10,20,30,'REC')
- b. {10,20,30,'REC'}
- c. [10,20,30,'REC'] ✓
- d. 10,20,30,REC

Your answer is correct.

The correct answer is:

[10,20,30,'REC']

Question 12

Correct

Mark 1.00 out of 1.00

What will be the output after the following statements?

```
m = 'A'  
n = 'B'  
o = 'C'  
p = [m, n, o]  
print(p)
```

- a. ['C', 'B', 'A']
- b. ['C', 'A', 'B']
- c. ['A', 'B', 'C'] ✓
- d. 'C', 'A', 'B'

Your answer is correct.

The correct answer is:

['A', 'B', 'C']

Question 13

Correct

Mark 1.00 out of 1.00

Given a list L = [10, 20, 30, 40, 50, 60, 70], what would L[2: -2] return?

- a. [20, 30, 40, 50]
- b. [10, 20, 30, 40]
- c. [30, 40, 50] ✓
- d. [20, 30, 40]

Your answer is correct.

The correct answer is:

[30, 40, 50]

Question 14

Correct

Mark 1.00 out of 1.00

Suppose list1 is [3, 4, 5, 20, 5], what is list1.index(5)?

- a. 1
- b. -3 ✓
- c. 4

Your answer is correct.

The correct answer is:

-3

Question 15

Correct

Mark 1.00 out of 1.00

What will be the data type of m after the following statement?

m = [90, 'A', 115, 'B', 250]

- a. Tuple
- b. List ✓
- c. Dictionary
- d. String

Your answer is correct.

The correct answer is:

List

[◀ List](#)[Jump to...](#)[Week6_Coding ►](#)

Started on Wednesday, 29 May 2024, 10:33 PM**State** Finished**Completed on** Wednesday, 29 May 2024, 10:47 PM**Time taken** 14 mins**Grade** **12.00** out of 15.00 (**80%**)**Question 1**

Correct

Mark 1.00 out of 1.00

What is the output of the given below program?

```
t1 = (1,2,3)
t2 = (4,5,6)
x = t1+t2
print(x)
```

- a. (1,2,3)(4,5,6)
- b. (1,2,3,4,5,6) ✓
- c. (1,2,3,3,2,1)
- d. Error

Your answer is correct.

The correct answer is:

(1,2,3,4,5,6)

Question 2

Correct

Mark 1.00 out of 1.00

What will be the output of following Python code?

```
set1={0,0,9}  
print(set1)
```

- a. {9}
- b. It will throw an error as there are two 0 while creating the set.
- c. {0,9} ✓
- d. {0,0,9}

Your answer is correct.

The correct answer is:

{0,9}

Question 3

Correct

Mark 1.00 out of 1.00

Which of the following Python code will create a set?

- (i) set1=set((0,9,0))
- (ii) set1=set([0,2,9])
- (iii) set1={}

- a. iii
- b. i,ii ✓
- c. ii
- d. All of the above

Your answer is correct.

The correct answer is:

i,ii

Question 4

Correct

Mark 1.00 out of 1.00

Write the Output of the following Code?

```
t = (15,83,83,52,60,45,52,85,100)
```

```
print(min(t)+max(t)+t.count(52))
```

- a. 100
- b. 2
- c. 117 ✓
- d. Error

Your answer is correct.

The correct answer is:

117

Question 5

Correct

Mark 1.00 out of 1.00

What will be the output of following Python code?

```
set1={2,5,3}
set2={3,1}
set3={}
set3=set1&set2
print(set3)
```

- a. {}
- b. {2,5,3,1}
- c. {3} ✓
- d. {2,5,1}

Your answer is correct.

The correct answer is:

{3}

Question 6

Incorrect

Mark 0.00 out of 1.00

What is the output of the following `set` operation

```
sampleSet = {"Yellow", "Orange", "Black"}  
sampleSet.update(["Blue", "Green", "Red"])  
print(sampleSet)
```

- a. Name Error
- b. {'Yellow', 'Orange', 'Red', 'Black', 'Green', 'Blue'}
- c. {'Yellow', 'Orange', 'Black', ["Blue", "Green", "Red"]} ✗
- d. TypeError: update() doesn't allow `list` as a argument.

Your answer is incorrect.

The correct answer is:

{'Yellow', 'Orange', 'Red', 'Black', 'Green', 'Blue'}

Question 7

Correct

Mark 1.00 out of 1.00

What is the output of the given below program?

```
t = (58, 47, 36, 25, 14, 3)  
x = t[2:-1]  
print(x)
```

- a. (36, 25, 14) ✓
- b. (3,14,25)
- c. (58,47,36,25)
- d. Error

Your answer is correct.

The correct answer is:

(36, 25, 14)

Question 8

Incorrect

Mark 0.00 out of 1.00

Which of the following options will produce the same output?

```
t = (15, 83, 21, 49, 60, 45, 52, 85, 100)
# options i, ii, iii, or iv
print(t[:-1])
print(t[0:5])
print(t[0:8])
print(t[-7:])
```

- a. iii,iv ✗
- b. i,ii
- c. i,iii
- d. ii,iv

Your answer is incorrect.

The correct answer is:

i,iii

Question 9

Correct

Mark 1.00 out of 1.00

A python tuple can be created without using any parentheses. (True/False)

- a. False
- b. True ✓

Your answer is correct.

The correct answer is:

True

Question 10

Correct

Mark 1.00 out of 1.00

What will set1|set2 do?

```
If set1={"a", "b", 3}  
set2={3,7}
```

- a. A new set will be created with the elements of both set1 and set2 ✓
- b. A new set will be created with the unique elements of set1 and set2.
- c. Elements of set1 will get appended to set2
- d. Elements of set2 will get appended to set1

Your answer is correct.

The correct answer is:

A new set will be created with the elements of both set1 and set2

Question 11

Correct

Mark 1.00 out of 1.00

Which of the following is a Python tuple?

- a. {1,3,8,9,41}
- b. (1,4,5,6,7) ✓
- c. ("Wonder")
- d. [1,2,3,4]

Your answer is correct.

The correct answer is:

(1,4,5,6,7)

Question 12

Correct

Mark 1.00 out of 1.00

What is the output of the following

```
set1 = {1, 2, 3, 4, 5}
set2 = {6, 7, 1, 3, 4, 8, 2, 5}

print(set1.issubset(set2))
print(set2.issuperset(set1))
```

a. True ✓

True

b. True

False

c. False

True

d. False

False

Your answer is correct.

The correct answer is:

True

True

Question 13

Correct

Mark 1.00 out of 1.00

What is the output of the given below program?

```
my_t1 = (1, 2, 3, 4)
my_t1.append( (5, 6, 7) )
print(len(my_t1))
```

- a. Error ✓
- b. 5
- c. 1
- d. 2

Your answer is correct.

The correct answer is:

Error

Question 14

Incorrect

Mark 0.00 out of 1.00

What will be printed when the following code executes?

```
a = ("Python Programming")
print type(a)
```

- a. <class 'tuple'> ✗
- b. <class 'str'>
- c. str
- d. <class 'int'>

Your answer is incorrect.

The correct answer is:

<class 'str'>

Question 15

Correct

Mark 1.00 out of 1.00

Select which is true for Python tuple?

- a. A tuple is unordered
- b. None of these
- c. We can change the tuple once created
- d. A tuple maintains the order of items ✓

Your answer is correct.

The correct answer is: A tuple maintains the order of items

[◀ Set](#)[Jump to...](#)[Week7_Coding ►](#)

[Dashboard](#) / [My courses](#) / [PSPP/PUP](#) / [Experiments based on Dictionary and its operations.](#) / [Week8 MCQ](#)

Started on Wednesday, 29 May 2024, 8:59 PM

State Finished

Completed on Wednesday, 29 May 2024, 9:12 PM

Time taken 13 mins 1 sec

Grade 12.00 out of 15.00 (80%)

Question 1

Correct

Mark 1.00 out of 1.00

Choose the correct statement, in reference to the following code: D1.update(D2) #D1 and D2 are dictionaries

- a. It will merge all the elements of [dictionary](#) 'D1' in [dictionary](#) 'D2'.
- b. It will merge all the elements of [dictionary](#) 'D2' in [dictionary](#) 'D1'. ✓
- c. It will create a new [dictionary](#).
- d. None of the mentioned

The correct answer is: It will merge all the elements of [dictionary](#) 'D2' in [dictionary](#) 'D1'.

Question 2

Correct

Mark 1.00 out of 1.00

Which of the following is an example of [dictionary](#)?

- a. L = []
- b. None of the mentioned
- c. D = {} ✓
- d. C = 🎈

The correct answer is: D = {}

Question 3

Incorrect

Mark 0.00 out of 1.00

Following statement return values in the form of: D1.keys() # D1 is a [dictionary](#)

- a. string
- b. tuple ✗
- c. [dictionary](#)
- d. [list](#)

The correct answer is: [list](#)

Question 4

Correct

Mark 1.00 out of 1.00

Keys in dictionary are ____.

- a. antique
- b. integers
- c. Immutable ✓
- d. Mutable

The correct answer is: Immutable

Question 5

Correct

Mark 1.00 out of 1.00

Dictionaries are flexible in nature, means elements can be added or removed from it.

- a. False
- b. True ✓

The correct answer is: True

Question 6

Correct

Mark 1.00 out of 1.00

Which one of the following is correct?

- a. A dictionary can have two same keys with different values.
- b. A python, a dictionary can neither have two same keys nor two same values.
- c. A dictionary can have two same values with different keys. ✓
- d. A dictionary can have two same keys or same values but cannot have two same key-value pair

Your answer is correct.

The correct answer is:

A dictionary can have two same values with different keys.

Question 7

Incorrect

Mark 0.00 out of 1.00

Both keys and values are unique in [dictionary](#).

- a. True X
- b. False

The correct answer is: False

Question 8

Correct

Mark 1.00 out of 1.00

Which function/statement delete all the items of the [dictionary](#)?

- a. `delete` 
- b. `pop` 
- c. `clear`  ✓
- d. `del`

The correct answer is: `clear` 

Question 9

Correct

Mark 1.00 out of 1.00

Which one of the following is correct?

- a. A python, a [dictionary](#) can neither have two same keys nor two same values.
- b. A [dictionary](#) can have two same keys with different values.
- c. A [dictionary](#) can have two same values with different keys. ✓
- d. A [dictionary](#) can have two same keys or same values but cannot have two same key-value pair

Your answer is correct.

The correct answer is:

A [dictionary](#) can have two same values with different keys.

Question 10

Correct

Mark 1.00 out of 1.00

Which function/statement delete the [dictionary](#) from the memory?

- a. del ✓
- b. pop
- c. delete
- d. clear

The correct answer is: del

Question 11

Correct

Mark 1.00 out of 1.00

Keys of [dictionary](#) must be ____.

- a. unique ✓
- b. integers
- c. mutable
- d. antique

The correct answer is: unique

Question 12

Correct

Mark 1.00 out of 1.00

____ function returns the number of key: value pairs of the [dictionary](#).

- a. items
- b. len ✓
- c. total
- d. length

The correct answer is: len

Question 13

Incorrect

Mark 0.00 out of 1.00

Which of the following is not method of dictionary?

- a. len X
- b. pop
- c. update
- d. del

The correct answer is: del 

Question 14

Correct

Mark 1.00 out of 1.00

Which of the following is used to delete an element from Dictionary?

- a. None of the mentioned
- b. remove
- c. pop ✓
- d. delete

The correct answer is: pop 

Question 15

Correct

Mark 1.00 out of 1.00

Which function helps to merge dictionary 'D1' and 'D2'?

- a. get
- b. update ✓
- c. append
- d. merge

The correct answer is: update 

◀ Dictionary

Jump to...

Week8_Coding ►



State Finished**Completed on** Wednesday, 29 May 2024, 10:31 PM**Time taken** 13 mins 26 secs**Grade** 9.00 out of 15.00 (60%)**Question 1**

Correct

Mark 1.00 out of 1.00

Which of the following is not the scope of variable?

- a. Global
- b. Outside ✓
- c. Local
- d. None of the mentioned

The correct answer is: Outside

Question 2

Incorrect

Mark 0.00 out of 1.00

What is the output of the following function call?

```
def fun1(num):
    return num + 25
fun1(5)
print(num)
```

- a. 5 ✗
- b. 25
- c. num
- d. NameError

Your answer is incorrect.

The correct answer is:

NameError

- a. tuple
- b. dictionary
- c. print
- d. input

The correct answer is: dictionary

Question 4

Correct

Mark 1.00 out of 1.00

Which of the following are advantages of using function in program?

- a. It increases readability of program.
- b. All of the mentioned ✓
- c. It increases reusability.
- d. It makes debugging easier.

The correct answer is: All of the mentioned

Question 5

Correct

Mark 1.00 out of 1.00

Write the output of : print(min(tuple("computer")))

- a. u
- b. o
- c. c ✓
- d. t

The correct answer is: c

- a. 5
- b. 2
- c. Multiple times ✓
- d. 3

The correct answer is: Multiple times

Question 7

Incorrect

Mark 0.00 out of 1.00

Fill in the line of the following Python code for calculating the factorial of a number?

```
def factorial? :  
    if (n==1 or n==0):  
        return 1  
    else:  
        return ---  
num = 5;  
print("number : ",num)  
print("Factorial : ",factorial(num))
```

- a. (n-1)*(n-2)
- b. n*(n-1) ✗
- c. fact[?] *fact(n-1)
- d. (n * factorial(n - 1))

Your answer is incorrect.

The correct answer is:

(n * factorial(n - 1))

```
def add(a, b):  
    return a+5, b+5  
result = add(3, 2)  
print(result)
```

- a. Syntax Error
- b. 15 ✗
- c. 8
- d. (8,7)

Your answer is incorrect.

The correct answer is:

(8,7)

Question 9

Correct

Mark 1.00 out of 1.00

def cal(n1) : What is n1?

- a. Argument
- b. None of the mentioned
- c. Keyword
- d. Parameter ✓

The correct answer is: Parameter

- a. Fun
- b. def ✓
- c. Function
- d. Define

Your answer is correct.

The correct answer is:

def

Question 11

Incorrect

Mark 0.00 out of 1.00

Which of the following function definition header is wrong?

- a. def scan(p1, p2 = 4, p3 = 5): ✗
- b. def mul(p1, n1, m1):
- c. def div(p1=4, p2, p3):
- d. def sum(n1, n2, n = 3):

The correct answer is: def div(p1=4, p2, p3):

Question 12

Correct

Mark 1.00 out of 1.00

Which of the following is not the type of function argument?

- a. default argument
- b. initial argument ✓
- c. Keyword argument
- d. Required argument

The correct answer is: initial argument

- a. def fun(a, b = 2, c = 3)
- b. def fun(a, b, c = 3, d) X
- c. def fun(a = 2, b = 3, c)
- d. def fun(a = 2, b, c = 3)

Your answer is incorrect.

The correct answer is:

def fun(a, b = 2, c = 3)

Question 14

Correct

Mark 1.00 out of 1.00

What is the output of the following function call?

```
def fun1(name, age=20):
    print(name, age)
fun1('Emma', 25)
```

- a. age
- b. name
- c. Emma 25 ✓
- d. Emma 20

Your answer is correct.

The correct answer is:

Emma 25

- a. send
- b. return ✓
- c. take
- d. give

The correct answer is: return

◀ Functions

Jump to...

Week9_Coding ►

[Dashboard](#) / [My courses](#) / [PSPP/PUP](#) / [Searching techniques: Linear and Binary](#) / [Week10_MCQ](#)

Started on Wednesday, 29 May 2024, 10:04 PM

State Finished

Completed on Wednesday, 29 May 2024, 10:17 PM

Time taken 13 mins 16 secs

Grade 14.00 out of 15.00 (93.33%)

Question 1

Correct

Mark 1.00 out of 1.00

_____ search takes a sorted/ordered [list](#) and divides it in the middle.

- a. Binary ✓
- b. Hash
- c. Linear
- d. Both (1) & (3)

Your answer is correct.

The correct answer is:

Binary

Question 2

Correct

Mark 1.00 out of 1.00

_____ is putting an element in the appropriate place in a sorted [list](#) yields a larger sorted order [list](#).

- a. Distribution
- b. Insertion ✓
- c. Selection
- d. Extraction

Your answer is correct.

The correct answer is:

Insertion

Question 3

Correct

Mark 1.00 out of 1.00

Finding the location of a given item in a collection of items is called

- a. Searching ✓
- b. Mining
- c. Discovering
- d. Finding

Your answer is correct.

The correct answer is:

Searching

Question 4

Correct

Mark 1.00 out of 1.00

The average case occurs in the linear search algorithm

- a. Item is the last element in the array or item is not there at all
- b. When the item is the last element in the array
- c. When the item is not the array at all
- d. When the item is somewhere in the middle of the array ✓

Your answer is correct.

The correct answer is:

When the item is somewhere in the middle of the array

Question 5

Correct

Mark 1.00 out of 1.00

The process of placing or rearranging a collection of elements into a particular order is known as

- a. Merging
- b. Searching
- c. Sorting ✓
- d. Rearranging

Your answer is correct.

The correct answer is: Sorting

Question 6

Incorrect

Mark 0.00 out of 1.00

Two-way merge sort algorithm is used to sort the following elements in ascending order.

200,470,150,80,90,40,400,300,120,70

What is the order of these elements after second pass of the merge sort algorithm?

- a. 200,470,80,150,40,90,300,400,70,120
- b. 80,150,200,470,40,90,300,400,70,120
- c. 40,80,90,150,200,300,400,470,70,120
- d. 40,70,80,90,120,150,200,300,400,470 X

Your answer is incorrect.

The correct answer is:

80,150,200,470,40,90,300,400,70,120

Question 7

Correct

Mark 1.00 out of 1.00

In _____ checks the elements of a list, one at a time, without skipping any element.

- a. Hash search
- b. Both (1) & (3)
- c. Binary search
- d. Linear search ✓

Your answer is correct.

The correct answer is:

Linear search

Question 8

Correct

Mark 1.00 out of 1.00

What is mean by stable sorting algorithm?

- a. A sorting algorithm is stable if it preserves the order of all keys
- b. A sorting algorithm is stable if it doesn't preserve the order of duplicate keys
- c. A sorting algorithm is stable if it preserves the order of non-duplicate keys
- d. A sorting algorithm is stable if it preserves the order of duplicate keys ✓

Your answer is correct.

The correct answer is:

A sorting algorithm is stable if it preserves the order of duplicate keys

Question 9

Correct

Mark 1.00 out of 1.00

Which of the following is not a limitation of binary search algorithm?

- a. Binary search algorithm is not efficient when the data elements more than 1500 ✓
- b. Must use a sorted array
- c. Requirement of sorted array is expensive when a lot of insertion and deletions are needed
- d. There must be a mechanism to access middle element directly

Your answer is correct.

The correct answer is:

Binary search algorithm is not efficient when the data elements more than 1500

Question 10

Correct

Mark 1.00 out of 1.00

Given an array arr = {45,77,89,90,94,99,100} and key = 100; What are the mid values(corresponding array elements) generated in the first and second iterations?

- a. 94 and 99
- b. 90 and 99 ✓
- c. 90 and 100
- d. 89 and 94

Your answer is correct.

The correct answer is:

90 and 99

Question 11

Correct

Mark 1.00 out of 1.00

_____sort is the simplest [sorting](#) algorithm that works by repeatedly swapping the adjacent elements in case they are unordered in n-1 passes.

- a. Complexity
- b. Bubble ✓
- c. Insertion
- d. Selection

Your answer is correct.

The correct answer is: Bubble

Question 12

Correct

Mark 1.00 out of 1.00

Which of the following is not the required condition for a binary search algorithm?

- a. Number values should only be present
Number values should only be present
- b. There should be direct access to the middle element in any sublist
- c. There must be a mechanism to delete and/or insert elements in the [list](#) ✓
- d. The [list](#) must be sorted

Your answer is correct.

The correct answer is:

There must be a mechanism to delete and/or insert elements in the [list](#)

Question 13

Correct

Mark 1.00 out of 1.00

Given an array arr = {45,77,89,90,94,99,100} and key = 99; what are the mid values(corresponding array elements) in the first and second levels of recursion?

- a. 89 and 94
- b. 90 and 99 ✓
- c. 89 and 99
- d. 90 and 94

Your answer is correct.

The correct answer is:

90 and 99

Question 14

Correct

Mark 1.00 out of 1.00

Algorithm design technique used in merge sort algorithm is

- a. Backtracking
- b. Greedy method
- c. Divide and conquer ✓
- d. Dynamic programming

Your answer is correct.

The correct answer is:

Divide and conquer

Question 15

Correct

Mark 1.00 out of 1.00

Which of the following is not an in-place [sorting](#) algorithm?

- a. Quick sort
- b. Merge sort ✓
- c. Heap sort
- d. Selection sort

Your answer is correct.

The correct answer is:

Merge sort

[◀ Searching](#)

Jump to...

[Week10_Coding ►](#)