Python MCQs

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3rd and 4th Years

Set 5

1. Which of the following statements is false about recursion?

a) Every recursive function must have a base case

b) Infinite recursion can occur if the base case isn’t properly mentioned

c) A recursive function makes the code easier to understand

d) Every recursive function must have a return value

2. What will be the output of the following Python code?

def fun(n):

if (n > 100):

return n - 5

return fun(fun(n+11));

print(fun(45))

a) 50

b) 100

c) 74

d) Infinite loop

3. What will be the output of the following Python code?

def f(p, q, r):

global s

p = 10

q = 20

r = 30

s = 40

print(p,q,r,s)

p,q,r,s = 1,2,3,4

f(5,10,15)

a) 1 2 3 4

b) 5 10 15 4

c) 10 20 30 40

d) 5 10 15 40

4. What will be the output of the following Python code?

def f(x):

print("outer")

def f1(a):

print("inner")

print(a,x)

f(3)

f1(1)

a)

outer

error

b)

inner

error

c)

outer

inner

d) error

5. What will be the output of the following Python functions?

float('1e-003')

float('2e+003')

a)

3.00

300

b)

0.001

2000.0

c)

0.001

200

d)

Error

2003

6. Which of the following functions does not necessarily accept only iterables as arguments?

a) enumerate()

b) all()

c) chr()

d) max()

7. What will be the output of the following Python code?

def display(b, n):

while n > 0:

print(b,end="")

n=n-1

display('z',3)

a) zzz

b) zz

c) An exception is executed

d) Infinite loop

8. What will be the output of the following Python code?

def find(a, \*\*b):

print(type(b))

find('letters',A='1',B='2')

a) String

b) Tuple

c) Dictionary

d) An exception is thrown

9. What will be the output of the following Python code?

>>> a=(2,3,1,5)

>>> a.sort()

>>> a

a) (1,2,3,5)

b) (2,3,1,5)

c) None

d) Error, tuple has no attribute sort

10. Is the following Python code valid?

>>> a=(1,2,3)

>>> b=a.update(4,)

a) Yes, a=(1,2,3,4) and b=(1,2,3,4)

b) Yes, a=(1,2,3) and b=(1,2,3,4)

c) No because tuples are immutable

d) No because wrong syntax for update() method

11. What will be the output of the following Python code snippet?

a=[1, 4, 3, 5, 2]

b=[3, 1, 5, 2, 4]

a==b

set(a)==set(b)

a)

True

False

b)

False

False

c)

False

True

d)

True

True

12. What will be the output of the following Python code snippet?

l=[1, 2, 4, 5, 2, 'xy', 4]

set(l)

l

a)

{1, 2, 4, 5, 2, ‘xy’, 4}

[1, 2, 4, 5, 2, ‘xy’, 4]

b)

{1, 2, 4, 5, ‘xy’}

[1, 2, 4, 5, 2, ‘xy’, 4]

c)

{1, 5, ‘xy’}

[1, 5, ‘xy’]

d)

{1, 2, 4, 5, ‘xy’}

[1, 2, 4, 5, ‘xy’]

13. What will be the output of the following Python code?

s1={1, 2, 3}

s2={3, 4, 5, 6}

s1.difference(s2)

s2.difference(s1)

a)

{1, 2}

{4, 5, 6}

b)

{1, 2}

{1, 2}

c)

{4, 5, 6}

{1, 2}

d)

{4, 5, 6}

{4, 5, 6}

14. What will be the output of the following Python code?

s1={1, 2, 3}

s2={4, 5, 6}

s1.isdisjoint(s2)

s2.isdisjoint(s1)

a)

True

False

b)

False

True

c)

True

True

d)

False

False

15. What will be the output of the following Python code snippet?

a = [0, 1, 2, 3]

i = -2

for i not in a:

print(i)

i += 1

a) -2 -1

b) 0

c) error

d) none of the mentioned

16. What will be the output of the following Python code snippet?

string = "my name is x"

for i in ' '.join(string.split()):

print (i, end=", ")

a) m, y, , n, a, m, e, , i, s, , x,

b) m, y, , n, a, m, e, , i, s, , x

c) my, name, is, x,

d) error

17. What will be the output of the following Python code?

print('abcdefcdgh'.partition('cd'))

a) (‘ab’, ‘cd’, ‘ef’, ‘cd’, ‘gh’)

b) (‘ab’, ‘cd’, ‘efcdgh’)

c) (‘abcdef’, ‘cd’, ‘gh’)

d) error

18. What will be the output of the following Python code?

print('abcd'.partition('cd'))

a) (‘ab’, ‘cd’, ”)

b) (‘ab’, ‘cd’)

c) error

d) none of the mentioned

19. What will be the output of the following Python code snippet?

print('abcdefcdghcd'.split('cd', 0))

a) [‘abcdefcdghcd’]

b) ‘abcdefcdghcd’

c) error

d) none of the mentioned

20. What will be the output of the following Python code snippet?

print('abcdefcdghcd'.split('cd', -1))

a) [‘ab’, ‘ef’, ‘gh’]

b) [‘ab’, ‘ef’, ‘gh’, ”]

c) (‘ab’, ‘ef’, ‘gh’)

d) (‘ab’, ‘ef’, ‘gh’, ”)

21. What will be the output of the following Python code snippet?

print('ab'.zfill(5))

a) 000ab

b) 00ab0

c) 0ab00

d) ab000

22. What will be the output of the following Python code snippet?

print('+99'.zfill(5))

a) 00+99

b) 00099

c) +0099

d) +++99

23. What is tail recursion?

a) A recursive function that has two base cases

b) A function where the recursive functions leads to an infinite loop

c) A recursive function where the function doesn’t return anything and just prints the values

d) A function where the recursive call is the last thing executed by the function

24. Observe the following Python code?

def a(n):

if n == 0:

return 0

else:

return n\*a(n - 1)

def b(n, tot):

if n == 0:

return tot

else:

return b(n-2, tot-2)

a) Both a() and b() aren’t tail recursive

b) Both a() and b() are tail recursive

c) b() is tail recursive but a() isn’t

d) a() is tail recursive but b() isn’t

25. What will be the output of the following Python functions?

x=3

eval('x^2')

a) Error

b) 1

c) 9

d) 6