Chapter-6 Function

Q1.Which statement is correct about Isalnum().

a) **Method returns true if all characters in the string are alphanumeric numbers(either alphabets or numbers).If not,it returns false**

b) **Method returns False if string are alphanumeric numbers(either alphabets or numbers).If not,it returns True.**

c) **Both of the above**

d) **None of these**

Q2.What is the output of below program?

```
def say(message,times=1):

print(message*times)

say('Hello')

say('World',5)
```

a) **Hello WorldWorldWorldWorldWorld**

b) **Hello World 5**

c) **Hello World,World,World,World,World**

d)Hello HelloHelloHelloHelloHello

Q3.What is the output of the following?

```
Print("Hello{0!r}and{0!s}".format('foo','bin'))
```

a) **Hello 'foo' and foo**

b) **Hello 'foo'and foo**

(c) Hello foo and 'bin'

(d) Error

Q4. The output of the following python program is_____.

```
r=lambda q:q*2

s=lambda q:q*3

x=2

x=r(x)

x=s(x)

x=r(x)

print x
```

a) **24**

b) **48**

c) **64**

d) **None of the above**

Q5. What is the output of the following code?

```
def disp(*arg):

 for I in arg:

   print(i)

disp(name="Rajat", age="20")
```

a) **TypeError**

b) **Rajat20**

c) **Name age**

d) **None of these**

Q6. What dose the following code print?

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```
x='mohan'

for i in range(len(x)):

    x[i].upper()

print(x)
```

a) mohan
b) MOHAN
c) Error
d) None of these

Q7. What is the output of the following program?

```
a=2

b='3.77'

c=-8

strl= '(0:.4f) (0:3d) {2} (1)' .format(a, b, c)

print(strl)
```

a) 2.0000 2-83.77
b) 2 3.77 -8 3.77
c) 2.000 3 -8 3.77
d) 2.000 2 8 3.77

Q8. How many numbers will be printed by the following code?

```
def fun(a,b):

  for x in range(a,b+1):

      if x%3==0:

          print(x, end=" ")

fun(100,120)
```

a) 7
b) 8
c) 6
d) 9

Q9. What will be the output of the following Python code?

```
x=50

def func(x):

    print('x is' ,x)

    x=2

    print('Changed local x to' , x)

func(x)

print('x is now' ,x)
```

a) x is now 100
b) x is now 20
c) x is now 50
d) None of these

Q10. What will be the output of the following code?

```
 x=['ab' , 'cd']

y=0

for i in x:

  x[y]=i.upper()

  y+=1

print(x)
```

a) ['ab','cd']
b) ['AB','CD']
c) ['ab','cd','AB','CD']
d) Error

Q11. What will be the output of the following code?

```
 x=50

def fun1():

    x=25

    print(x)
```

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```
fun1()

print(x)
```

a) 25 b) 50
50 25

c) Name Error d) None of these

Q12. What will be the output of the following Python code?

```
a=3

b=2

def change():

    global b

    a=4

    b=5

    return(a*b)

print(change()*a)
```

a) 20 b)60
b) 80 d)None of these

Q13. What will be the output of the following Python code?

```
def maximum(x,y):

  if x>y:

    return x

elif x==y:

    return 'The numbers are equal'

else:

    return y

print(maximum(2, 3))
```

a) 3
b) The numbers are equal
c) 2
d) None of these

Q14. What will be the output of the following Python code?

```
def increment__items(L, increment):

    i=0

    while i<len(L):

        L[i] = L[i] + increment

        i=i +1

values=[1 ,2 ,3]

print(increment__items(values,2))

print(values)
```

a) None[3,4,5]
b) None[1,2,3]
c) [3,4,5] [1,2,3
d) [3,4,5] None

Q15. The output of this Python code would be:

```
def find (x,  **y):

    print(type(y))

find("letters",X='1',Y='2')
```

a) String
b) <class 'dict'>
c) Tuple
d) An exception is thrown

Q16.The output of this Python code would be:

```
>>>s='{0},{1},and{2}'
```

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>>>s.format('hi','great','day')

a) 'hi, great, and day'
b) 'hi great and day'
c) 'hi, great,day'
d) Error

Q17. Which one of these is NOT true about recursion?

a) We can replace a recursive function by a non-recursive function.
b) The memory space taken by the recursive functions is more than that of non-recursive function.
c) Running a recursive function is faster as compared to a non-recursive function.
d) The process of recursive makes it easier for users to understand a program.

Q18. What is the output of the following code?

```
def fun(a, b=6):
  a=a+b
   print(a)
fun(5,4)
```

a) 11 b) 9
c) 5 d) 4

Q19. The function pow(x,y,z) is evaluated as:

a) (x**y)**z
b) (x**y)/z
c) (x**y)/%
d) (x**y)*z

Q20. What will be the output of the following Python code?

```
import  functions
l=[1,2,3,4,5]
m=functools.reduce(lambda x, y:x  if  x>y else  y, l)
print(m)
```

a) Error
b) Address of m
c) 1
d) 5

Q21. What will be the output of the following Python program?

```
def  addItem(listParam):
     listParam+=[1]
mylist=[1,2,3,4]
addItem(mylist)
print(len(mylist))
```

a) 5 b) 8
d) 2 d) 1

Q22. What will be the output of the following code snippet?

```
square =lambda x:  x**2
a= []
for i in range(5):
        a.append(square(i))
print(a)
```

a) [1,4,9,16]
b) [0,1,2,3,4,]
c) [0,1,4,9,16]
d) [1,2,3,4,5]

Q23.What will be the output of the following code snippet?

```
from math import *
a=2.19
```

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b=3.999999

c=-3.30

print(int(a), floor(b), ceil(c), fabs(c))

a) 2 3 -3 3.3
b) 3 4 -3 3
c) 2 3 -3 3
d) 2 3 -3 -3.3

Q24.What will be the output of the following Python code?

```
def foo(k):
    k[0] =1
q=[0]
foo(q)
print(q)
```

a) [1]
b) [0,1]
c) [1,0]
d) [0]

Q25. What will be the output of the following Python code?

```
def cube(x):
    return x * x* x
x= cube(5)
print(x)
```

a) 26 b) 525
c)125 d) None of these.

Q26. Which of the following function headers is correct?

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

Q27. What will be the output of the following Python code?

```
def printMax(a, b):
    if a>b:
        print(a, 'is maximum')
elif a==b:
        print(a, 'is equal to' ,b)
else:
        print(b, 'is maximum')
printMax(3, 4)
```

a) 3
b) 4
c) 4 is maximum
d) None of these

Q28. Which part of the memory does the system store the parameter and local variables of a function cell?

a) heap
b) stack
c) Uninitialized data segment-
d) None of the above

Q29. What will be the output of the following Python code?

```
def func(a, b=5, c=10):
    print('a is ', a, 'and b is ' , b, 'and c is ', c)
func(3,7)
func(25, c=24)
func(c=50, a=100)
```

a) a is 7 and b is 3 and c is 10
a is 25 and b is 5 and c is 24

a is 5 and b is 100 and c is 50

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b) a is 3 and b is 7 and c is 10
a is 5 and b is 25 and c is 24

a is 50 and b is 100 and c is 5

c) a is 3 and b is 7 and c is 10
a is 25 and b is 5 and c is 24

a is 100 and b is 5 and c is 50

d) None of the mentioned.

Q30.How are keyword arguments specified in the function heading?

a) one-star followed by a valid identifier
b) one underscore followed by a valid identifier
c) two stars followed by a valid identifier
d) two underscore followed by a valid identifier

Q31. What will be the output of the following Python code?

```
from math import factorial

print(factorial(5))
```

a) 120
b) Nothing is printed.
c) Error, method factorial doesn't exist in math module;
d) None of the above

Q32. What is the output of the following code?

```
def add(a,b):

    return  a+5,b+5

result=add(3,2)

print(result)
```

a) 15
b) 8
c) (8,7)
d) Error

Q33. What is the return type of following function ?

```
def func1():

return 'mnp',22
```

a) List
b) Dictionary
c) string
d) tuple

Q34. What will be the output of the following python code?

```
def  calc(x):

 r=2*x**2

return r

print(calc(5))
```

a) Error
b) 50
c) 100
d) 20

Q35. If ___str1="Programming Language" What does str1.find("m")return?

a) Number of occurances of "m" in string str1.
b) Index positions of "m" in the string str1.
c) It returns the whole string str1 if it contains "m".
d) It returns the index position of first occurance of "m" in the string str1.

Q36. Write the output of the following :

```
print("python".join("@"))
```

a) 'p@y@t@h@o@n'
b) 'p@y@t@h@o@n@'
c) '@p@y@t@h@o@n@'
d) '@'

Q37. What will be output of this expression:

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‘p’ +’q’ if ‘12’ .isdigit() else ‘r’ +’s’

a) pq
b) rs
c) pqrs
d) pq12

Q38. Which of the following statement 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

Q39. What will be the output of the following Python code?

```
def foo(i, x=[]):
    x.append(i)
    return x
for i in range(3):
    print(foo(i))
```

a) [0][0,1][0,1,2]
b) [0][1][2]
c) [1][2][3]
d) [1][1,2][1,2,3]

Q40.What will be the output of the following code?

```
l=[“good” , “oh!” ,”excellent!” , “#450]
print([n for n in l if n.isalpha() or n .isdigit()]
```

a) [‘good’, ‘oh’ , ‘excellent’ , ‘450’]
b) [‘good’]
c) [‘good’,’#450’]
d) [‘oh’, ‘excellent’, ‘#450’

Q41. What will be the output of the following code?

```
>>>count=1
>>>def careerbodh():
... global count
... for I in (1,2,3):
...  count+=1
...
>>>careerbodh()
>>>print(count)
```

a) 1 c)3
b) 2 d)4

Q42. The output of below Python program:

```
def find(a, **b):
    print(type(b))
find(a=’1’,b=’2’)
```

a) An exception is thrown
b) String
c) Dictionary
d) Tuple

Q43. What will be the output of the following code?

```
>>>x=(1,2,3)
>>>sum(x,3)
```

a) Too Many arguments for sum() method
b) 9
c) The method sum() doesn’t exist for tuples
d) 12

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Q44. What will be the output of the following code snippet?

```
>>>example="helloworld"

>>>example[::-1].startswith("d")
```

a) Dlrowolleh c)-1
b) True d) Error

Q45. What is output of Python code:

```
>>>print('Car'.partition('xy'))
```

a) ('car','wz', ' ')
b) ('car')
c) Name error
d) ('car', ' ', ' ')

Q46. What will be the output of the following python code?

```
def check(i,j):

if(i==0)

 return j

else:

     return check(i-1,i+j)

print(check(4,7))
```

a) 13 c) 17
b) 7 d)Error

Q47. What will be the output of the following?

```
def  iq(a,b):

  if(a==0):

     return b

else:

     return iq(a-1,a+b)

print(iq(3,6))
```

a) 9 c) 10
b) 11 d)12

Q48. What is tail recursion?

a) A recursive function that has two base case
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.

Q49. The function which cause side effects to the arguments passed are called____.

a) Impure function
b) Partial functions
c) Dynamic Functions
d) Pure Function

Q50. What is output of below python code.

```
>>>str=['career', 'bodh' , 'snasthan']

>>>' '.join(str)
```

a) ['careerbodhsansthan']
b) 'careerbodhsansthan'
c) [' career bodh sansthan']
d) ' career bodh sansthan'

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