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Questions:

Long Answer Type Questions

1. Rahul and Aryan both are friends. They want to display addition of age, subtraction of height, multiply of weight and division of IQ.

Rahul	Description
Age	32
Height	175 cm
Weight	75 kg
IQ	100

Aryan	Description
Age	25
Height	165 cm
Weight	75 kg
IQ	50

Firstly, define the function add, ( ), sub ( ), mul ( ) and div ( ).

2. Differentiate between actual parameter(s) and formal parameter(s) with a suitable example for each.
3. What is the difference between local variable and global variable? Also, give a suitable Python code to illustrate both.
4. Explain the use of global key word used in a function with the help of a suitable example.
5. Explain the use of global key word used in a function with the help of a suitable example.

Short Answer Type Questions

6. The function given below is written to accept a string s as a parameter and return the number of vowels appearing in the string. The code has certain errors. Observe the code carefully and rewrite it after removing all the logical and syntax errors. Underline all the corrections made.

```
def CountVowels(s):
c=0
for ch in range(s):
if 'aeiouAEIOU' in ch:
c=+1
return(ch)
```

7. What is a default parameter? How is it specified?
8. Why is it necessary to use the global keyword in Python? Explain with its effect on a variable inside a function.
9. What do you understand by local and global scope of variables? How can you access a global variable inside the function, if function has a variable with same name
10. What will be the output of following code?

```
a = 45
def Funl( ):
global a
print("Value of a is", a)
a = 5
print ("Changed global a to", a)
Fun1( )
print ("Value of a is", a)
```

11. What will be the output of the following? Explain.

```
a = 45
def Funl( ):
global a
print("Value of a is", a)
a = 5
print ("Changed global a to", a)
Fun1( )
print ("Value of a is", a)
```

12. The code given below accepts five numbers and displays whether they are even or odd: Observe the following code carefully and rewrite it after removing all syntax and logical errors:
Underline all the corrections made.

```
def Even Odd( )
for 1 in range (5):
num = int (input ("Enter a number")
if num/2=0:
print ("Even")
else:
print ("Odd")
Even Odd ( )
```

13. Predict the output of the following code:

```
def callon(b − 20, a = 10) :
  b = b + a
  a = b − a
   print (b, "\#", a)
   return b
x = 100
y = 200
x = callon(x, y)
print(x, "@", y)
y = callon(y)
print(x, "@", y)
```

14. The code given below accepts a number as an argument and returns the reverse number. Observe the following code carefully and rewrite it after removing all syntax and logical errors. Underline all the corrections made define revNumber(num):
rev=0
rem=0
While num>0:
rem == num %10
rev = rev*10 + rem
num = num//10
return rev
print(revNumber(1234))

15. Write a function EO Replace() in Python, which accepts a list L of numbers. Thereafter, increments all even numbers by l and decrements all odd numbers by 1.
Example:
If Sample Input data of the list is
L-[10.20,30.40.35,55]
Output will be:
L-[11,21,31,41,34,54]

16. Write a function INDEX_LIST(L), where L is the list of elements passed as argument to the function. The function returns another list named index List that stores the indices of all Non-Zero Elements of L
For example:
If L contains [12, 4, 0, 11, 0, 56]
The index List will have - [0, 1, 3, 5]

17. Predict the output of the Python code given below:
def Diff(N1, N2):
if N1>N2:
return N1-N2
else:
return N2-N1
NUM = [10, 23, 14, 54, 32]
for CNT in range (4, 0, - 1):
A=NUM[CNT]
B=NUM[CNT-1]
print(Diff(A,B),'非',end=' ')

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18. Write a Python method/function Count 3 and 7(N)to find and display the count of all those numbers which are between 1 and N, which are either divisible by 3 or by 7. For example: If the value of N is 15 The count should be displayed as 7 (as 3,6,7,9,12,14,15 in between 1 to 15 are either divisible by 3 or 7)

19. The code given below accepts N as an integer argument and returns the sum of all integers from Ito N. Observe the following code carefully and rewrite it after removing all syntax and logical errors. Underline all the corrections made
def Sum (N)
for I in range (N):
S = S+I
return S
print (Sum (10)

20. Observe the following Python code carefully and obtain the output, which will appear on the screen after execution of it.
def Findoutput():
L - "earn"
x = "*"
count = 1
for i in L:
if i in ['a', 'e', 'i', 'o', 'u']:
X = X + i.swapcase()
else:
if count % 2 != 0:
X = X + str(len(L[:count]))
else:
X = X + i
count = count + 1
print(X)
Findoutput()

21. Observe the following Python code very carefully and rewrite it after removing all syntactical errors with each correction underlined.
DEF execmain( ):
x = input ("Enter a number")
if (abs (x) = x):
print ("You entered a positive number:")
else:
x = * - 1
print ("Number made postive:" x)
execmain ( )

22. Write a user defined function find name (name) where name is an argument in Python to delete phone number from a dictionary phone book on the basis of the name, where name is the key

23. Write a Python function generate fibo (n) where n is the limit, using a generator function Fibonacci (max) (where max is the limit n) that produces Fibonacci series.

24. Riya was asked to accept a list of even numbers but she did not put the relevent condition while accepting the list of numbers. You are required to write a user defined function odd to even (L) that accepts the list L as an argument and convert all the odd numbers into even by multiplying them by 2

25. (a) Predict the output of the following code:

```
def ExamOn (mystr):
newstr = " "
count = 0
for 1 in mystr:
if countleft!=0:
newstr = newstr + str (count -1)
else:
newstr = newstr + i.lower()
count +=1
newstr = newstr + mystr[:2]
print("The new string is:". newstr)
ExamOn ("GenX")
```

Or

(b) Write the output on execution of the following Python code

```
def Change (X) :
for K,V in X.items() :
L1,append(K)
L2,append (V)
0 = (1:"ONE", 2:"TWO", 3:"THREE")
L1 = []
L2 = []
Change (D)
print (L1)
print (L2)
print (D)
```

Case Study Questions

26. These are the values provided in function call/ invoke statement. Required arguments are the arguments passed to a function in correct positional order. Keyword arguments are related to the function calls.
When you use keyword arguments in a function call, the caller identifies the arguments by the parameter name. A default argument is an argument that assumes a default value, if a value is not provided in the function call for that argument
(i) How many types of arguments are there in functions?
A 2
B 3
C 4
D 5
(ii) Which argument is an argument that assumes a default value?
A Default argument
B Positional argument
C Keyword argument
D None of the above
(iii) Which arguments are also known as positional arguments?
A Keyword argument
B Default argument
C Required argument
D Variable length argument
(iv) Which argument helps identify parameters by their names instead of position?
A Required argument
B Keyword argument
C Default argument
D Positional argument
(v) _____are the values provided in function call/invoke statement.
A Functions
B Arguments
C Preprocessor
D Models

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27. A function is a block of organised and reusable code that is used to perform a single, related action. Functions provide better modularity for your application and a high degree of code re usability. The function blocks begin with the keyword def followed by the function name and parentheses ().
Any input parameters or arguments should be placed within these parentheses.
You can also define parameters inside these parentheses.
(i)Which keyword is used to define function?
(ii) Which type of bracket is placed after name of function?
(iii) A/An_____is a block of organised and reusable code.
(iv) Parameters are defined inside_____
(v) Function is used to perform_____related action.

28. Here is the function to find the sum of arguments

```
total " _____ # Line 1
def sum (argl, arg2)_____ # Line 2
total = argl +_____# Line 3
print (total)
return_____ # Line 5
total = sum (10, 20)
print ( _____ ) # Line 7
```

(i) Which value or constant will be equal to variable total in line 1?
A 1

B 0
C 2
D None
(ii) Which symbol is used to terminate the function def in line 2?
A ;
B .
C :
D ,
(iii) Fill the blank in line 3
A sum
B 1
C arg2
D 0
(iv) Which value will be return in line 5?
A sum
B total
C True
D False
(v) Fill the blank in line 7.
A sum
B True
C False
D total

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