Class: XII PER Subject: Computer Science(083)	IODIC TEST – II (2019-2 SET-I	20) Marks: 50 Time: 2 Hours
Name:	Roll No:	Date:
General Instructions:		i
• All questions are compulsor	у.	
• In Question 2(b, d) has inter	rnal choices.	
Q1:		
a. What is function ? How is it usefu	ıl?	(1)
b. From the program code given be	elow, identify the parts mer	ntioned below: (2)
def num(x):		
x=50		
return x+3		
y=55		
res=num(y)		
Identify these parts:		
function header, function call,	arguments, parameters, fu	nction body, main program
c. Trace the flow of execution for th	e following program:	(1)
<pre>1. def increment(x):</pre>		
2. x=x+1		
3.		
4.#main		
5. x=3		
6. print(x)		
7. increment(x)		
8.print(x)		
d. What is the different between th	e formal parameters and a	ctual parameters (1)
e. Predict the output of the following	ng code	(3)
	ii) TXT=["20","50","30","4	0"] ⁱⁱⁱ⁾ def upgrade(a,b=2
if n == 0:	CNT=3	a=a+b
print("Finally") else :	Total=0	print(a+b)
print(n)	for c in [7,5,4,6]: t=TXT[CNT]	i,j=10,20 upgrade(i,5)
codo(n-3)	Total=float(t) + c	upgrade(i)
codo(15)	print(Total)	
	CNT-=1	
f. Write a program using user defin i) Calculate and display average		(4) r defined list containing
numbers.		
ii) Write a python function that t	akes two numbers and prin	nt the smaller number.
Also write how to call this fund		
g. Explain two types of variable sco		(1)
h. Write a note on Non- Void Funct	ion and Void Function.	(2)

a. What is Libraries in Python and How many types of main library use in Python? (2)

b. Create a package Arithmetic Operations(named AO) contain sum, product and difference of two numbers and use it in your main programmer. (2)

Create a package from above two modules as this:



Make sure that above package meets the requirements of being a Python package. Also ,you should be able to import above package and/or its modules using import command.

- c. Write the structure of python Module and define __init__.py in a package. (2) (2)
- d. Write any two Built-in Functions in Standard Library's

(or)

WAP to get http request information from url www.vpscbsekrishnagiri.com and open it from within your program

e. How are the following two statements different from one another? (2) (i) import math (ii) from math import *

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Q3.				
a. Write a note on r, rb, r+ and w, wb ,w+.				
b. What are the various file opening modes?				
c. Write a program to count the words "to" and "the" present in a text file "Poem txt"				
d. Write a program to get roll numbers, names and marks of the students of a class				
(get from user) and store these details in a file called "Marks.xls"				
e. How are following statements different? i) f.readline() ii) f.readline().rstrip()				
f Minite and a to print just the last line of a tout file "data tut"				
<i>Line 1</i> \n	(1)			
"data.txt" \longrightarrow Line 3				
Line 4				
Q4. Line 6	(1)			
a. What is recursion ?				
b. What does infinite recursion occur?				
c. Write a recursive function that computes the sum of numbers 1n, get the value of last				
number n from user				
d. Write a recursive function to print a string backwards.				
e. Describe about Iterative Version with examples.				
f. Write a program for Binary searching in an array (a sorted list)				
Q5.				
a. 1 What is visualization of Data? How to use Pyplot for it?				
d. What is a marker? How can you change the marker type and colour in a plot?				
c. Write to create a pie for sequence con=[23.4,17.5,35,45,50] for				
Zones=["East",West","north", "South","Central"]				
Show North Zone's value exploded				
• Show % contribution for each zone				

The pie chart should be circulat. •