VAILANKANNI PUBLIC SCHOOL - CBSE									
Class: XII PERIODIC TEST – II (2019-20) Marks: 50									
Subject: Compute	er Science(083)	S	et-ll		D 1	Time: 2 Hours			
Name:	onc.		KOII NO:		Date:				
General Instruct	10115: 	_							
All question	ons are compulsory	/. 1 . 1.							
• In Questio	n 2(b, d) nas interi	nai cn	olces.						
QI:	14 4					(1)			
a. what is Defau	it Arguments?		Le su'Calles			(1)			
b. From the prog	gram code given bei	OW, 10	ientify the j	parts mentione	a belov	V: (2)			
	der sum(a):								
	a=100								
	return a+3								
	D=150								
1 J	val=sum(b)								
Identify these	e parts:				. 1				
function ne	eader, function call, a	argum Afollor	ients, parar	neters, function	i body,	main program			
c. Trace the now		2 10110	wing progr	am:		(1)			
1. del adde	m(x,y,z):								
2. prii	ll(x+y+z)								
J.	(··· ·· =).								
4. del prod	(X,Y,Z):								
5. retu	((102))								
6. a=addEn	(0,10,20)								
7. b=prod(2,3,6)								
8. print(a,b		,		с . 11 эт	Ŧ				
d. What do you	understand by local	and g	lobal scope	e of variables? I	low cai	n you access			
a giubai vai la	strut of the followin	on, n i a code		s a valiable wit	II Saine	(2)			
(i)	acput of the followin	g cour	đ		(;;;)	(3)			
(I) de	ef fun(s):	(II)	def Change	(P,Q=60):	(III)	i=3			
	K=Ien(S) m=""		P=P+Q 0-P-0			J=5 v=0			
	for i in range(0 k).		Q-r-Q nrint(P"	#" ())		i=i+(i-i)			
	if(s[i].isupper()):		return (P	עא, יי ר		x=i+i			
	m=m+s[i].lower()		R=600)		print(x,":".i)			
	elif s[i].isalpha():		S=300			j=j**2			
	m=m+s[i].upper()		R=Change(R,S)		x=j+i			
	else:		print(R,"#"	,S)		i=i+1			
	m=m+'bb'		S=Change(S	5)		print(i,":",j)			
C	print(m)								
fu	n(vps19\$kri ⁻)								
f. Write a progran	n that receives two r	numbe	ers in a fund	ction and retur	ns the r	esults of all			
arithmetic operation	ation(+,-,*,/,%) on th	iese n	umbers.			(2)			

g. Describe about returning values from functions in python with examples(2)h. Write and explain any two Built-in functions(2)

Q2.

- a. What is Python Module and Package?(2)b. How are following import statements different?(2)
 - i) import X ii) from X import * iii) from X import a,b,c

(or)

(2)

(2)

(1)

(2)

What is the problem in the following piece of code?

from math import factorial

print(math.factorial(10))

c. Write the structure of python Module and define __init__.py in a package.

d. What is the use of help() and dir() functions.

(or)

What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables FROM and TO.

```
AR=[20,30,40,50,60,70];
FROM=random.randint(1,3)
TO=random.randint(2,4)
for K in range(FROM,TO+1):
print (AR[K],end="#")
```

```
(i) 10#40#70# (ii) 30#40#50# (iii) 50#60#70# (iv) 40#50#70#
```

e. Rewrite the following python code after removing all syntax error. Underline the corrections done.
 (2)

def main():
 r=input("Enter any radius:")
 a-pi*maths.pow(r,2)
 print("Area=",+a)
 Main()

Q3.

a. Differentiate between a text file and a binary file.	(2)
b. What are the various method for reading data from file?	(1)
c. Write a function in python to count the number of lines in a text file 'STORY.TXT	
which is starting with an alphabet 'A' .	(2)
d. Create a file to hold some data , separated as lines.	(2)
e. Write a program to display the number of lines in the file.	(2)
f. Describe about ' <i>with'</i> statement in python with example	(2)

Q4.

-												
a. What do yo	What do you understand by the term Iteration?											(1)
b. Explain the Recursive Function. with examples.											(2)	
c. Write a recursive function to print Fibonacci series up to n th term.										(2)		
d. Write a note on Binary Search.											(2)	
e. Describe about Iterative Version with examples.											(2)	
f. Write the steps to search 44 and 36 using binary search in the following array										(2)		
DATA:												_
10	12	14	21	23	28	31	37	42	44	49	53	

Q5.

a. What is pyplot? Is it a Python library?

d. Name the functions you will use to create a i) line chart, ii) bar chart iii) pie chart.(1)

c. A bar chart is drawn(using pyplot) to represent sales data of various models of cars, for a month. Write appropriate statements in Python to provide labels **Month - June** and **Sale done** to x and y axis respectively.