**DAV PUBLIC SCHOOL, CHANDRASEKHARPUR-21**

**POST SUMMER VACATION TEST - 2022-23**

**CLASS – XII**

**SUB : COMPUTER SCIENCE (CODE 083)**

**Time – 2 Hours Full Mark -35**

General Instructions :

1. All question are compulsory.
2. Language - Python
3. There are 20 Questions
4. Question No 1 to 9 carries one Mark each
5. Question No 10 to 17 are Very Short Answer Types Questions & carries 2 marks each
6. Question No 18 & 19 carries 3 marks
7. Question No 20 is Long Answer Types Question & carries 4 marks
8. Question No 15 to 16 are Long Answer Types Questions & carries 5 marks each
9. What will be the output? 1 >>>t = (1, 2, 4, 3, 8, 9)

>>>[t[i] for i in range(0, len(t), 2)]

2. Which of the following results in a Syntax Error ? 1

 a) ' " Once upon a time…", she said.' b) "He said, 'Yes!' " c) '3\' d) ''' That’s okay '''

3. Select all options that print : hello-how-are-you 1

a) print ('hello', 'how', 'are', 'you') b) print ('hello', 'how', 'are', 'you'+'-'\*4)

c) print ('hello-' + 'how-are-you') d) print ('hello' + '-' + 'how' + '-' + 'are' + 'you')

4. What is the output of the following? 1

>>>list1 = [11, 2, 23]

>>>list2 = [11, 2, 2]

>>>list1 < list2

5. What is the output of the following? 1

print("xyyzxyzxzxyy".count('xyy', 0, 100))

6. Name the Python Library modules which need to be imported to invoke the following functions : 1

(i) sqrt() (ii) mean()

7. Which of the following can be used as valid variable identifier(s) in Python ? 1

(i) elif (ii) BREAK (iii) in (iv) \_Total

8. Name the function/method required to 1

(i) check if a string contains only alphabets (ii) give the total length of the list

9. Write about the purpose of ‘return’ keyword. 1

10. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 2

250 = Number

WHILE Number<=1000:

 if Number=>750:

 print(Number)

 Number=Number+100

 else

 print(Number\*2)

 Number=Number+50

11. What is the output of the following? 2

i = 0

while i < 5:

print(i)

i += 1

if i == 3:

break

else:

print(0)

12. Find and write the output of the following python code : 2

Msg1="WeLcOME"

Msg2="GUeSTs"

Msg3=""

for I in range(0,len(Msg2)+1):

 if Msg1[I]>="A" and Msg1[I]<="M":

 Msg3=Msg3+Msg1[I]

 elif Msg1[I]>="N" and Msg1[I]<="Z":

 Msg3=Msg3+Msg2[I]

 else:

 Msg3=Msg3+"\*"

print(Msg3)

13. What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code ? Also specify the minimum values that can be assigned to each of the variables BEGIN and LAST. 2

import random

VALUES=[10,20,30,40,50,60,70,80]

BEGIN=random.randint(1,3)

LAST=random.randint(BEGIN,4)

for I in range(BEGIN,LAST+1):

 print(VALUES[I],"-",end=’’)

(i) 30 - 40 - 50 - (ii) 10 - 20 - 30 - 40 -

(iii) 30 - 40 - 50 - 60 - (iv) 30 - 40 - 50 - 60 - 70 –

14. Differentiate between Run-Time Error and Logical Error ? Also, write a suitable example in Python to illustrate both. 2

15. What is the output when following code is executed ? 2

numberGames = {}

numberGames[(1,2,4)] = 8

numberGames[(4,2,1)] = 10

numberGames[(1,2)] = 12

sum = 0

for k in numberGames:

 sum += numberGames[k]

print(len(numberGames) + sum)

16. Find and write the output of the following python code 2

for Name in ['Jayes', 'Ramya', 'Taruna', 'Suraj']:

 print(Name,end=’’)

 if Name[0]== 'R':

 break

 else :

 print('Finished!')

print('Got it!')

17. Write a python method/function Count3and7(N) to find and display the count of all those numbers which are between 1 and N(excluding), which are either divisible by 3 or by 7. 2

 For example : If the value of N is 15

The count should be displayed as 6

18. What is the output when following code is executed ? 3

def Changer(P,Q=10):

 P=P/Q

 Q=P%Q

 print(P,"#",Q)

 return P

A,B=200,20

A=Changer(A,B)

print(A,"$",B)

B=Changer(B)

print(A,"$",B)

A=Changer(A)

print(A,"$",B)

19. Write a function COPY90Above( ) to take a dictionary DAll (having (roll:marks) as key and value) as parameter and create a new dictionary D90above with those elements whose marks is more than 90 . 3

 Eg: if DAll ={1:39,2:95,3:67,4:99} then D90above={2:95,4:99}

20. What do you understand by the mutable/immutable properties of a parameter? Write two user defined functions to display each of the property. 4