**DAV PUBLIC SCHOOL, CHANDRASEKHARPUR, BBSR-751021**

**POST SUMMER VACATION TEST - (2023-24)**

**CLASS – XII**

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

TIME – 1hour 30 min. MM: 35

1. What will be the output? 1 >>>t = (1, 2, 4, 3, 8, 9)

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

2. What is the output of the following? 1

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

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

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

4. What will be the output of the following Python code? 1

s="a@b@c@d"

a=list(s.partition("@"))

c='@'.join(a)

print(c)

a) a@b@c@d b) a@@b@@c@@d c) a@@b@c@d d) a@@@b@c@d

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

6. Name the function/method required to 1

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

7. What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code ? 1

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 –

8. What is the average value of the code that is executed below ? 1

>>>grade1,grade2 = 80,90

>>>average = grade1 + grade2 / 2

a) 85 b) 85.0 c) 125 d) 125.0

9. Which of the following statement(s) would give an error after executing the following code? 1

a=' All and No one' #statement 1

a=a.strip('e') #statement 2

print(a) #statement 3

print(a.index('e')) #statement 4

1. statement 1 (b) statement 2 (c) statement 3 (d) statement 4

Q10 and Q11 are ASSERTION AND REASONING based questions. Mark the correct choice as

(a) Both A and R are true and R is the correct explanation for A

(b) Both A and R are true and R is not the correct explanation for A

(c) A is True but R is False

(d) A is false but R is True

10. Assertion (A) :- Keyword arguments are related to function calls. 1

Reasoning (R) :- When you use a keyword arguments in a function call, the caller identifies the arguments by the parameter name.

11. Assertion (A) :- A return statement returns a value as well as the control from a function. 1

Reasoning (R) :- It is compulsory for all functions to have a return statement.

12. 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

13. What is the output of the following? 2

i = 0

while i < 5:

print(i)

i += 1

if i == 3:

break

else:

print(0)

14. 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)

15. 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}

16. 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. 3

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

def func(a, b=10, c=5):

print('a is', a, 'and b is', b, 'and c is', c)

func(3, 7)

func(25, c = 24)

func(c = 50, a = 100)

18. What is the output when following code is executed ? 4

i) 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)

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

print(Name,end=’’)

if Name[0]== 'R':

break

else :

print('Finished!')

print('Got it!')

19. LifeHealthy Pharmaceutical Company wants to automate their company. Developers *& Co*., a software farm designed software for *LifeHealthy* Pharmaceutical Company.

A part of the program is given below:-

def Purchase (price=1,qty=1): #Line1

val= price\*qty #Line2

return val #Line3

print (“Thank you for shopping”) #Line4

def PlaceOrder (qty=10, totalpay): #Line5

if qty>=50:

print(“You are eligible to get 10% discount”)

totalpay=totalpay-totalpay\*0.10

elif qty>=30:

print(“You are eligible to get 5% discount”)

totalpay=totalpay-totalpay\*0.05

else:

print (“You are not eligible to avail discount”)

def Shipping (Date, Time, Day):

print (“Shipping schedule is”, Date, Time, Day)

1. Some errors are found in Line 5. As a software designer, suggest the correction required in Line 5. 1
2. “Thank you for shopping” is not getting printed in the above code fragment. Find the reason behind this problem. 1
3. Write Python statements to invoke Purchase () in two different ways. 1
4. Find the statement given below which will show error while calling Shipping():- 1

Shipping (25, 2)

Shipping (a, b, c)

Shipping (Day=”Tuesday”, Date=25, Time=2)

Shipping (time=2, date=25, day=”Tuesday”)

1. Mention the scope of variable price, qty and val in Purchase (). 1