PM SHRI KENDRIYA VIDYALAYA DHARMAPURI

HOLIDAY HOMEWORK 2026-2027

SUBJECT: COMPUTER SCIENCE - 12 A

Assignment:

1) Research the Project Topic in Website with **Project Description also**. Submit Hardcopy on School Reopen that Day.

2) Complete your Record Work also I shared Softcopy in Group so Take printout and Write all the Algorithm also for each Program in A4 SHEET.

2mark and 3mark case Based Question:

Students Write only 'ANSWER IN A4 SHEETS' : Submit on School Reopening Day:

3) Rohan is writing a Python program to determine if a year is a leap year. He has written a program, but it's not working correctly. Help him rewrite the code, underlining the changes.

```
year = input("Enter a year: ")  #Input need to be converted into integer
if year % 100 == 0:
   if year % 400 ==0:
      print(year, "is a century and leap year")
   else:
      print(year,"is a century year but not leap year")
else if year%4==0:              #elif instead of else if
      print(year, "is a leap year")
   else:
      print(year, "is not a leap year")
```

4) (A) Write a Python program to find the largest and smallest numbers from a list. Assume the list is given as [55, 12, 98, 34, 76, 1, 88].

5) Identify the correct output(s) of the following code from the choices i to iv. Write all incorrect choices. Also specify the maximum values that can be assigned to each of the variables start and end.

```
import random
numbers = [10, 20, 30, 40, 50, 60]
start = random.randint(0, 2)
end = random.randint(3, 4)
for i in range(start, end):
   print(numbers[i], end=", ")
```

(i) 10, 20, 30, (ii) 30, 40, (iii) 20, 30, 40, (iv) 40, 50,

5) **Predict the output of the Python code given below:**

```
def func(n1 = 1, n2= 2):
      n1= n1 * n2
```

```
        n2= n2 + 2
        print(n1, n2)
    func( )
    func(2,3)
```

6)Predict the output of the Python code given below:

```
    T= [“20”, “50”, “30”, “40”]
    Counter=3
    Total= 0
    for I in [7,5,4,6]:
        newT=T[Counter]
        Total= float (newT) + I
        print(Total)
        Counter=Counter-1
```

7) Write the most appropriate list method to perform the following tasks.

(I) A) To delete a given element from the list L1.

B) To sort the elements of list L1 in ascending order.

(II) A) To add an element in the beginning of the list L1.

B) To add elements of a list L2 in the end of a list L1.

8) 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.

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

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

9) Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code.

```
p=30
for c in range(0,p)
If c%4==0:
print (c*4)
Elseif c%5==0:
print (c+3)
else
print(c+10)
```

10) Predict the output of the Python code given below:

```
g=0
def fun1(x,y):
    global g
    g=x+y
    return g
def fun2(m,n):
    global g
    g=m-n
    return g
k=fun1(2,3)
fun2(k,7)
print(g)
```

11)

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),'#', end=' ')
```

OR

Predict the output of the Python code given below:

```
tuple1 = (11, 22, 33, 44, 55 ,66)
list1 =list(tuple1)
new_list = []
for i in list1:if
    i%2==0:
new_list.append(i) new_tuple = tuple(new_list)
print(new tuple)
```