**D.A.V. Centenary Public School, Chander Nagar**

**Class**: XI **Unit Test**-1 **M.M**:30

Note: All questions are compulsory

Programming Language is Python.

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| Q1 | A | Write any four fields where python can be used. | 1 |
|  | B | Name the operators given below (**any two**)  >=,==,<= (ii) +,-,\*,//,% (iii) and ,or | 1 |
|  | C | Consider the string str="**My School** " write the statement in Python to implement the following.   1. To display the last four character 2. To display the index of ‘**c’** 3. To check whether the string ***ho*** is present or not   Repeat the string three times | 2 |
|  | D | What is comment in Python? Explain different types of comments available in python with some suitable examples | 2 |
|  | E | Find out the valid and invalid identifier in the following list  1stTime , Total\_amount , RollNo21. VOLUME , sum$, #myname , rakesh, employee@dav , | 2 |
|  | F | Convert the following into python expressions   1. Volume = ii ) 2. iv) result = | 4 |
|  | G | Write shortcut command to open a new file in python IDLE | 1 |
| Q2 | A | Find out the syntax error(s) in the following program segment and also write its correct version  a=int(input("Enter a number: ")) b=int(input("Enter another number: ")) front**,**end=a,b  if a>b:  front,end = b,a  i==start  while i=<end  if (i%front=0):  print(i,end='--')  i=+1  print(I,end=”\n”) | 2 |
|  | B | Find out the output of the following program segment  N,M = 23456,0  while(N!=0):  M+=N%10  N = N//10  print(“Value of M :”,m) | 2 |
|  | C | Perform the following in Python   1. Write for loop to print first 100 natural numbers 2. Write expression to check whether number is completely divisible by 5 3. To check the sum of num1 and num2 is greater than product of num1 and num2 4. To check num1 and mum2 both are multiple of 5 | 4 |
|  | D | Find out order of evaluation of the following expressions   1. a+b > -b\*-a and a-c + b < c-a 2. b==a\*\*2 >b//2\*c/d+c | 2 |
| Q3 | A | Write the output of the following  l1=[500,600]  l2=[35,45]  l1.append(700)  l1.extend(l2)  l1.insert(25,2)  print(l1)  print(l1+l2)  print(l1.index(35))  print(l2\*2) | 2 |
|  | B | L1=[‘Vinay’, 'Sonia’, 'Shaurya’, ’Radhika’]  Using **insert()** function add a new name ‘Deepak’ at position 2nd | 1 |
|  | C | Nachiketa have the following list  L1=[‘Vinay’, ’Sonia’, ‘Shaurya’, ‘Radhika’]  He wants the following output( given below) how is this possible or what command he will apply .  L1=[ ‘Radhika’,‘Shaurya’,’Sonia’,‘Vinay’] | 1 |
|  | D | Suppose L=[“abc”,[6,7,8],3,'mouse']  Consider the above list and answer the following  L[3:] b) L[::2] c)L[1;2] d l[1][2] | 4 |
| Q4 | A | Write the program in Python to generate the series.  **Using loops only**   1. 1,8,27,64,125 2. 2,5,7,11,13,17,19,23 3. 1,2,3,5,8,13,21 | 6 |
|  | B | Write the program in Python to generate the following patterns. **Using loops only**  I) 1  22  333  4444  55555   1. #   ##  ###  ####  #####   1. 1   12  123  1234  12345 | 6 |
| Q5 | A | Write the most appropriate method to perform the following task.  In this list.  Li=[‘Archit ’,’ is’, ‘Best’, ‘Student’]   1. Delete the **third** element of a list 2. Add single element at the **end of list** | 2 |
|  | B | Write output of the following code segment:  a=[1,2,3,2,1]  for x in a:  print(a[x],end= '\*') | 2 |
|  | C | Consider the lists A and B given below and state the values (True/False) of the expressions that follow:  A=[5, 3, 8]  B=[A, 8, 66, 45]  (i) A in B  (ii [5, 3, 8] in B  (iii) 8 in B  (iv) A not in B | 2 |
|  | D | What will be the output of the following code if  **x=”KhusbuJain”**   1. print(x[3:],’and’,x[:2]) 2. print(x[-7:],’and’,x[-4:-2]) 3. Print(x[2:7],’and’,x[-4:-1]) | 3 |
|  | E | Write a program for students it will take five subjects marks and find the total of all the subjects marks also find the percentage of the student. | 3 |
| Q6 | A | Write the program for ***Fibocaii*** series (ten terms only)  1 2 3 5 8 13 21…… | 3 |
|  | B | If a=True and b=False then Find the output  print(a and b)  print(a or b)  print(b and a)  print(b or a) | 2 |
|  | C | Differentiate between List and Tuple with some suitable example | 2 |
| Q7 | A | Write a program in Python to read 10 element from keyboard. Find out all the unique elements in this list. | 3 |
|  | B | Write a program in Python to read a string from keyboard. Count total “**vowels**” available in this string using looping method. | 3 |
|  | C | Suppose a list of states contains the names of state available. Display all those states that have last character ‘h’.  Example  States = [‘Bihar’,’Kerla’,’Mizoram’,’Jharkhand’,’Odisa’,’West Bengal’ ,’Uttar Pradesh’,’ Andhra Pradesh’ ]  Output : Uttar Pradesh Andhra Pradesh | 4 |