ST. ANTHONY PUBLIC SCHOOL PARA

UNIT TEST SERIES-1

[(SUBJECT:- COMPUTER SCIENCE) (CLASS:-XII)]

MM:-35 **Duration:- 90 min**

Note:- All questions are compulsory

Very short Answer type questions		**[15x1=15]**
Q-1	Find the invalid identifier from the following a) MyName b) True c) 2ndName d) My_Name	1
Q-2	Given the lists L=[1,3,6,82,5,7,11,92] , write the output of **print(L[-2 : -5 : -1])**	1
Q-3	What is pickling	1
Q-4	Identify the valid bitwise operator in Python from the following. a) << b) < c) ** d) and	1
Q-5	Suppose a tuple T is declared as T = (10, 12, 43, 39), which of the following is incorrect? a) print(T[1]) b) T[2] = -29 c) print(max(T)) d) print(len(T))	1
Q-6	Write a statement in Python to declare a dictionary whose keys are 1, 2, 3 and values are Monday, Tuesday and Wednesday respectively.	1
Q-7	Name the Python Library modules which need to be imported to invoke the following functions : a) sqrt() b) dump()	1
Q-8	Name the function / method required for a) Finding second occurrence of m in madam. b) get the position of an item in the list.	1
Q-9	Identify the valid declaration of L: L = [‘Mon’, ‘23’, ‘hello’, ’60.5’] a) dictionary b) string c) tuple d) list	1
Q-10	If the following code is executed, what will be the output of the following code? **name="Computer Science"** **print(name[: : -1])**	1
Q-11	Write the term suitable for following description : a) A name defined outside function definition b) A variable created inside function body	1
Q-12	Write function name for following a) Convert string into list b) Add list to the end of another list	1
Q-13	Why stack is called LIFO sequence ?	1
Q-14	What is the situation is called when deletion is attempted in an empty queue	1
Q-15	Write any two applications of stack.	1
Short answer type questions		**[5x2=10]**

Q-16	**Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code.**
	`x= int("Enter the Value of x:"))`
	`for in range[0,21];`
	`  if x=y`
	`  print (x+ y)`
	`  else:`
	`  Print(x-y)`
		2

Q-17	Write a user-defined function frequencyCount() that accepts a dictionary with a list of elements (keys) as arguments and returns the frequency of the element’s occurrence in the form of dictionary. **OR** Write a user-defined function with string as a parameter which replaces all vowels in the string with '$'.	**2**
Q-18	Write a function DISPLAYWORDS() in Python to read lines from a text file POEM.txt and display those words which have less than 4 characters.	**2**

Q-19	**Study the following program and select the possible output(s) from options (i) to (iv) following it. Also, write the maximum and the minimum values that can be assigned to the variable i.**
	`import random`
	`pick =random.randint(0,3)`
	`color=['Red','Green', 'Blue', 'Orange']`
	`for i in color:`
	`  for j in range(1,pick):`
	`  print(i,end="")`
	`  print()`
	(i) Red
	Green
	Blue
	Orange
	(ii) Red
	Green Green
	BlueOrange
	(iii) RedGreen
	BlueBlue
	OrangeOrange
	(iv) RedRed
	GreenGreen
	BlueBlue
	OrangeOrange
		2

Q-20	Differentiate between **keyword** and **default** arguments in python with example.	2
Long answer type questions		**[2x3=6]**
Q-21	Write a function in Python, do_Push(Num) and do_Pop(Num) to add a new Number and delete a Number from a List of Numbers, considering them to act as push and pop operations of the Stack data structure. **OR** Write a function in Python, INSERT_QUEUE(List1,data) and DELETE_QUEUE(List1) for performing insertion and deletion operations in a Queue. List1 is the list used for implementing queue and data is the value to be inserted.	3
Q-22	Create a binary file funandfood.dat that can store details of rides such as Ticketno, Ridename, Noofpersons, and Price with the help of AddRides() function and write another Python function DisplayTotal() to display total amount of each ticket. Also count total number of tickets sold.	3
High Order Thinking questions		**[4x1=4]**
Q-23	Given a binary file "STUDENT.DAT", containing records of the following type: `[S_Admno, S_Name, Percentage]` Where these three values are: `S_Admno` – Admission Number of student (string) `S_Name` – Name of student (string) `Percentage` – Marks percentage of student (float) Write a function in Python that would read contents of the file "STUDENT.DAT" and display the details of those students whose percentage is above 75.	4