KOTHARI INTERNATIONAL SCHOOL,NOIDA
ANNUAL EXAMINATION 2025-2026
GRADE: XI SUBJECT: COMPUTER SCIENCE(083)
MARKING SCHEME

Q1	Answer the following	1x25=25
1	Ans: i. x[1] [2] [1] [2] ii. x[1] [2] [1:]OR ii. x[1] [2] [1:3]	1+1
2	Evaluate the following Boolean expressions . (a) 0 and 1 and a and b (b) not((not b or not a)and c)or a Given a=False , b=True , c=False as initial values for both the parts Ans : 0 , True	1+1
3	Predict the output: L=['a','b','c','d','e','f','g'] L[2:3]=[] print(L) L[2:5]=[] print(L) Ans : ['a', 'b', 'd', 'e', 'f', 'g'] ['a', 'b', 'g']	1+1

4	Give the output of the code given below :
	for i in range(4):
	for j in range (5):
	if i+1==j :
	print("+", end='')
	else:
	print("o" , end='')
	print()
	Ans : o+ooooo+ooooo+ooooo+
		1

5	What will be the output of the following code : str= "Positive" for i in range(-1,-len(str),-1): print(str[i],end="$") Ans : e$vitiso	1
6	Write the output of the following: print("1234534".split("3",2)) Ans ['12', '45', '4']	1
7	Write the output of the following: print('@'.join("HELLO WORLD ")) Ans : H@E@L@L@O@ @W@O@R@L@D@	1

8	Write the output of the following code : L=["Amit","Sumit","Naina"]; print(L*3);print(L+2) Ans : ['Amit', 'Sumit', 'Naina', 'Amit', 'Sumit', 'Naina', 'Amit', 'Sumit', 'Naina']; Gives error	**1**
8	Write the output of the following : L=["Amit","Sumit","Naina"];L1=["Sumit"];print(L + L1) Ans :['Amit', 'Sumit', 'Naina', 'Sumit']	**1**

10	Consider the following code : What will be the output produced if the input is abc
	string=input("enter string")
	count=3
	while True :
	  if string[0]=='a':
	  string=string[2:]
	  elif string[-1]=='b':
	  string=string[:2]
	  else:
	  count+=1
	  break
	print(string)
	print(count)
	Ans : c
	4
		2

11	Suppose that L=[“how”,[“are”,”you”],[“keep ”,”yourself”],”fit”,”always”, “man”,”!!”] What do the following expressions evaluate to : a. print(“keep” in L[2:3][0]) b. print(L[3:4]+L[1:2]) c. print(L[1]+L[2]) Ans : True ['fit', ['are', 'you']] ['are', 'you', 'keep', 'yourself']	**1x3=3**
12	Predict the output : x=(1,(2,(3,(4,)))) print(len(x)) print(x[1][0]) print(2 in x) Ans : 2 2 False	**1x3=3**

13	mydict={‘a’:27,’b’:43,’c’:25,’d’:30}
	vala= ‘’
	valb=’ ‘
	for i in mydict :
	  if i <vala:
	  vala=i
	  valb=mydict[i]
	print(vala) #Line 1
	print(valb) #Line 2
	print(20 in mydict) #Line 3
	mylst=list(mydict.items())
		1x5=5

	mylst.sort() #Line 4 print(mylst[-1]) #Line 5 a. What output does line 1 produce ? b. What output does line 2 produce ? c. What output does line 3 produce ? d. What output does line 5 produce ? e. What is the return value from the list sort() function ? Empty String Empty String False ('d', 30) The list gets sorted on the basis of alphabets	
Q2		
1	State minimum four merits of Python language .	**2**
2	Define a Python object quoting an example . State properties of a python object	**3**

3	Give purpose , syntax of the functions given below :
	1. sorted () 2.popitem() 3. fromkey()
	Ans :
	sorted(). This functionunction returns a sorted sequence of the keys in the dictionary.. The syntax is:
	sorted(disctionary)
	For example,
	>>> Student = { "Name" : "Surbhi Gupta",
	"Rollno" : "11",
	"Address" : "F2/27 - MIG Flat, Sec-7, Rohini",
	"Phone" : "7286798500"
	}
	>>> print(sorted(Student))
	The above code will print the following output:
	['Address', 'DOB', 'Name', 'Rollno', 'Sex']
	popitem(). This method removes key:value pair orderly and it always pops pairs in the order. The syntax is:
	Dictionary.popitem()
	For example,
	>>> Emp = {"Shika Antony" : "Programmer",
	"Aju John" : "Teacher",
	"Shreya Rao" : "Teacher",
	"Hisham Ahmed Rizvi" : "Programmer",
	"Shreya Mathur" : "Accountant",
	"Pooja Agarwal" : "Teacher",
	"Shivani Behl" : "Programmer",
	}
	>>> Emp.popitem()
	('Shivani Behl', 'Programmer')
	>>> Emp.popitem()
		3

	fromkey(). This method receives a sequence of keys, such as a list. It creates a dictionary with each of those keys. We can specify a value as the second argument. The syntax is:
	fromkeys(seq[, v])
	For example,
	>>> ListMonths = ['January', 'March', 'May', 'July', 'August', 'October', 'December']
	>>> Months = {}.fromkeys(ListMonths, 31)
	>>> print (Months)
	{'January': 31, 'March': 31, 'May': 31, 'July': 31, 'August': 31, 'October': 31, 'December': 31}
	Here, the **fromkeys()** method creates a new dictionary Months, where the list items will be the keys. Each key will be initiated to 31. Note that the **fromkeys()** method is a class method and needs the class name, which is {} in our case, to be called.	

4	Convert 100 in decimal to Hexadecimal . Convert it back to decimal . Show detailed steps in each conversion process .	**2**
5	Give Truth Tables and symbol for OR and Not gates	**2**
5	a. Give purpose , syntax of the functions given below : 1. partition() 2. split() b. Give the outputs for : 1. sub= “ringa” string.find(sub,15,22) Output : Parent string not defined 2. ‘A-2345’.isalnum( ) Ans :False	**4**
6	. Give purpose , syntax of the functions given below : 1. extend() 2. pop() b. Give the outputs for : 1. t1=[1,2] t2=[3,4] t2=t1.extend(t2) print(t2) 2. t1=[‘a’,’b’,’c’,’d’] t1.sort(reverse=True) print(t1)	**4**
Q3	**LONG ANSWER TYPE**	
1	Write a program that rotates the elements of a tuple,containing alphabets ,so that the element at the first index moves to the second index, the element in the second index moves to the third index, etc., and the element in the last index moves to the first index. :	**5**

2	Write a program that takes positive integers from user and constitutes a list . Display the largest and secondlargest element from this list .	**5**
3	Write a program to convert a decimal number to binary.	**5**
4	Write a program to take the name of students as input , then ask marks of five subjects as 'English' ,'Physics', 'Chemistry', 'Maths',and 'Computer'. Use dictionary to store the student 's name as key and total marks as values . If the total marks for any student is less than 200 print **"FAILED"** along with the name of the student else print **"PASSED" .** The number of students is user defined .	**5**
5	Write a program to input employee number and name for 'N' employees in a dictionary . Name should be used as key . Display all employees ' information in ascending alphabetical order of their ımes.	**5**