

**KOTHARI INTERNATIONAL SCHOOL, NOIDA**  
**ANNUAL EXAMINATION, SESSION: 2024-25**  
**GRADE: 11 SUBJECT: COMPUTER SCIENCE (083)**  
**SET B**

**DAY & DATE: MONDAY- FEBRUARY 10, 2025**

**MAXIMUM MARKS: 70**

**NAME: \_\_\_\_\_**

**TIME ALLOTTED: 3 HOURS**

**ROLL NO: \_\_\_\_\_**

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**GENERAL INSTRUCTIONS:**

1. This question paper consists of 4 printed pages and 3 questions. It is compulsory to attempt all questions.
2. All the answers must be correctly numbered as in the question paper and written in answer sheet.

**SECTION A (25 MARKS)**

**Q1** Answer the following

- 1 What will be the output of the following code .You are expected to write accurate answer . 1  
val=2  
val1=5  
print(val1//val)
- 2 What would the following expressions return ? 1  
>>> "python programs".find("ra",0,20)
- Evaluate the following Boolean expressions . 1+1  
3 (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
- 4 Predict the output: 1+1  
L=['a','b','c','d','e','f','g']  
L[2:3]=[]  
print(L)  
L[2:5]=[]  
print(L)
- 5 Give the output of the code given below : 1  
for i in range(4):  
    for j in range (5):  
        if i+1==j :  
            print("+", end='')  
        else:  
            print("o" , end='')  
print()

- 6 What will be the output of the following code : 1  
`str= "Positive"  
for i in range(-1,-len(str),-1):  
 print(str[i],end="$")`
- 7 Write the output of the following: 1  
`print("12345".split("#",2))`
- 8 Write the output of the following: 1  
`print('@'.join("PYTHON "))`
- 9 Write the output of the following code : 1  
`L=["Amit","Sumit","Naina"]; print(L+2)`
- 10 Write the output of the following : 1  
`L=["Amit","Sumit","Naina"];L1=["Sumit"];print(L + L1)`
- 11 The function count() counts the number of elements in a list (T/F). 1
- 12 Which of the following statements is not true about list. 1  
a. A list may comprise a string as one of its elements.  
b. A list is always defined by enclosing its elements within square brackets  
c. The method del works on list .  
d. None of the above
- 14 Consider the following code : What will be the output produced if the input is abc 2  
`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)`
- 15 Suppose that L=["how",["are","you"],["keep ","yourself"],"fit","always", "man","!!"] 1x3=3  
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])

16 Predict the output : 1x3=3  
x=[1,[2,[3,[4]]]]  
print(len(x))  
print(x[1][0])  
print(2 in x)

17 Give the outputs of the codes given below : 1x3=3  
mystr= 'Be always your original self'  
print(mystr.split('my'))  
print(mystr.split())  
print(mystr.partition('my'))

### SECTION B(20 MARKS)

#### 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 How can elements of list be sorted in ascending/descending order using a library function . 3  
Elaborate with example

4 Convert 135 in decimal to Hexadecimal . Convert it back to decimal . Show detailed steps 4  
in each conversion process .

5 a. Give purpose , syntax of the functions given below : 4

1. partition()          2. split()

b. Give the outputs for :

1. sub= "ringa"  
string= " love to sing ringa ringa roses"  
string.find(sub,15,22)  
2. 'A-2345'.isalnum( )

6 .a. Give purpose , syntax of the functions given below : 4

1. extend()          2. pop()

b. Give the outputs for :

1. t1=[1,2]  
t2=[3,4]  
t2=t1.extend(t2)  
print(t2)

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2. t1=['a','b','c','d']  
   t1.sort(reverse=True)  
   print(t1)
```

### SECTION C (25 MARKS)

#### Q3

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|---|--|---|
| 1 | Write a program that rotates the elements of a list ,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. The number is entered by the user .   | 5 |
| 4 | Write a program that capitalizes the first letter of each word in an entered line of text entered by the user .  | 5 |
| 5 | Write a program to find whether the number entered by the user is palindrome or not .  | 5 |