



# **BRAIN INTERNATIONAL SCHOOL**

**SESSION 2024-25**

**CLASS: XI**

**TERM 1 REVISION SHEET**

**SUBJECT: IP**

## **Ch-3 Brief Overview of Python , Flow Of Control**

1. What is the value of the expression  $4+2**5//10$   
(a) 1233 (b) 7 (c) 9 (d) 45
2. The three greater than signs ( $>>>$ ) are called the Python \_\_\_\_\_  
(a) Cursor (b) Command prompt (c) Pointer (d) Blinking Cursor
3. Which of the following are the fundamental building blocks of a Python program?  
(a) Identifiers (b) constants (c) Punctuators (d) Tokens
4. Explain for loop with the help of syntax.
5. WAP in Python to print the multiplication table of 7.(use for loop)
6. WAP in Python to find the maximum out of three entered numbers.  
(use if – elif)
7. WAP in Python to display first natural numbers in reverse order
8. WAP in Python to accept marks of 5 subject and calculate total and average of marks. Also display grade according to the given condition. (use if – elif)

Average Marks	Grade
>85	A
>70 and <=85	B
>60 and <=70	C
>=45 and <=60	D
<45	E

## Ch 2- Emerging Trends

- Q1. Differentiate between Virtual Reality and Augmented Reality
- Q2. Define Machine Learning and write its applications.
- Q3. Define Big data. Write its Characteristics.
- Q4. What do you understand by Internet of Things. List its applications.
- Q5. What do you understand by Cloud Computing.

## Ch-4 Working with List and Dictionaries

- 1. Which of the following function will return the first occurrence of the specified element in a list.  
(a) sort() (b) value() (c) index() (d) sorted()

- 2. What will be the output of the following?

```
A=[12,34,56,98,'hello']
```

```
print(1:4)
```

- 3. State any 3 features of Python dictionaries.
- 4. Write a Program to count number of times a character appears in a given string using a dictionary.
- 5. Differentiate between pop() and remove() methods of List.
- 6. Can List be used as key to dictionary? Give reason.
- 7. What will be the output of the following?

```
A=[45,39,50,90,70,80,90,100,70]
```

```
print(:5)
```

### Case Study –I

Q8. Some educational institute use programming as a tool to measure knowledge level, abilities and skills of their pupils either on a general level or in a specific field of study. The IT instructor of Star Academy has given following question to his students based on list manipulations. Help them solve these.

Write the output of the following:

- 1) Str = "Computer"  
print (list (str))
- 2) L = [2,3,4,3,5,6,3,7,3,6,8]  
C=L.count (3)  
print (c )
- 3) List = [ 10,8,2,4,7,3,1]  
List.sort ()  
print (List)
- 4) List = ['p','Y','T','H','O','N']  
print (List.pop () )
- 5) L1 = [20, 40, 30, 50]  
L2 = [6,8,9,10]  
print ( L1 + L2 )

### **Case Study –II**

Q9. Shobha is learning Python and working on List manipulation. Help her in writing the output statement of the following operation on given list.

1. list1 = [12,32,65,26,80,10]  
list1.sort()  
print(list1)
2. myList = [1,2,3,4,5,6,7,8,9,10]  
del myList[:5]  
print(myList)
3. list1 = [1,2,3,4,5,6,7,8,9,10]  
list1[::-2]  
list1[:3] + list1[3:]
4. list1 = [1,2,3,4,5]  
list1[len(list1)-1]
5. list1 = [3,4,5,6]  
print(list1.pop(2))

## **Ch-1 Computer System**

1. What is Language Processor? Give examples.
2. Write two difference between RAM and ROM.
3. Explain briefly the functions of operating System.
4. Explain IPO cycle.
5. Explain Secondary memory devices of Computer System.