

LIONS SCHOOL MIRZAPUR  
HALF YEARLY EXAMINATION 2020-21

Class- XI

Subject- Informatics Practices (065)

Note- Attempt all the questions.

M.M.: 70

Time: 3 hrs.

- Q.1- a) What is the need for Cache memory? 2
- b) Define the two categories of Application software. 2
- c) What do you mean by Data recovery? 1
- d) Convert 2.5 KB into Bytes. 1
- e) Draw the block diagram of a computer system. 2
- f) Explain input and output devices giving one example of each. 2
- Q.2- a) Who developed Python programming language? Python is cross platform language.  
What do you understand by this statement? 2
- b) Differentiate between Runtime error and Logical error giving examples. 2
- c) What is the extension given to Python file when it is saved? 1
- Q.3- a) What is the difference between a keyword and an identifier? 2
- b) Define Python variables. How are they created? 2
- c) Predict the output-
- ```
a,b,c = 2,3,4  
a,b,c = a*a, a*b, a*c  
print (a,b,c)
```
- 2
- d) Write Python program that accepts marks in five subjects and prints average mark. 2
- e) What would be the output of the following code-
- ```
a= 7+9/4  
b= int(7+9/4)  
c='56'  
d= '30'  
print (a,b)  
print (c+d)  
print (c*4)
```
- 2

Q.4- a) Differentiate between Mutable and immutable datatypes in Python with examples. 3

b) Which datatypes of Python handle numbers? 2

c) What are relational operators? Name all six. 4

d) Identify the datatypes of the values given below-  
i) 13.7      ii) 5+2j 1

Q.5- a) What is the significance of empty statement in Python? Give an example. 2

b) Use the Python range () function to create the list [4,7,10,13]. 2

c) Write a Python program to check whether an integer entered by the user is even or odd. 4

d) Correct the following code and write output-

```
for i in Range (1,16):  
    if i%3 = 0:  
        print(i) 3
```

e) Predict the output-

```
n=1  
for a in range(5):  
    print(n)  
    n=n*10+1 2
```

f) What is the need of if-elif statement? Write its Syntax. 2

Q.6- a) What will be the output of following statements-

```
list1= [15,20,10,18,7,13]  
list1.sort()  
print (list1) 2
```

b) Differentiate between append() and extend() methods of list. 2

c) What is the difference between following two expressions , if list l1 is given as [1,3,5]

i) l1 \* 3  
ii) l1 \*= 3 2

d) The record of a student (Name, Roll\_No and Marks in five subjects) is stored in the following list –

```
stRecord = ['Malay', 'B-45', [52,86,63,71,80]]
```

Write Python statements to retrieve the following information from the list stRecord.

- I) Roll\_No of the student
- II) Marks in the fourth subject
- III) Maximum Mark of the student
- IV) Change the name of the student from 'Malay' to 'Ramesh'. 4

Q.7- a) How is dictionary different from list? 2

b) Consider the following dictionary stateCapital-

```
stateCapital = {"Rajasthan": "Jaipur", "Bihar": "Patna", "Chhattisgarh": "Raipur",  
               "Maharashtra": "Mumbai"}
```

Find the output of the following statements-

- I) `print(stateCapital.get("Bihar"))`
- II) `print (stateCapital.keys())`
- III) `print (stateCapital.values())`
- IV) `print (len(stateCapital))` 4

c) What will be the output of following code-

```
x={'A':40, 'B':35, 'C':60}
```

```
y={ }
```

```
for z in x:
```

```
    y[x[z]]=z
```

```
print(y)
```

3

d) Show the output-

```
x=[10,20,30,40,50]
```

```
print(x[len(x)-2])
```

1

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