

ATOMIC ENERGY CENTRAL SCHOOL NO-3, TARAPUR

WORKSHEET – Module-3

Sub: Computer Science

Class : XII

Lesson 1 : Computational Thinking And Programming

Name: _____ Roll No.: _____ Date: _____

Maximum Marks : 15 Marks Obtained: _____

1) Differentiate between append() and extend() functions of list. (2)

2) What is meant by list slicing? Give suitable Examples (1)

3) What will be the output of the following statements? (2)

i)

```
X= [78,45,34,2]
```

```
X.reverse()
```

```
print(X)
```

ii)

```
X= [1,8,2,4,6,3,9]
```

```
sorted(X)
```

```
print(X)
```

4) What will be the output of the following statements? (2X2=4)

i)

```
a=[1,2,3,4,5,6]
```

```
for i in range(1,6):
```

```
    a[i-1]=a[i]
```

```
for i in range (0,6):
```

```
    print(a[i],end=" ")
```

ii)

```
a=[9,18,27,36]
```

```
for i in a:
```

```
    for j in range (1,i%8):
```

```
        print(j,"@",end=" ")
```

```
    print()
```

5) Find the errors and state the reasons (2)

```
for S in[ violet,"indigo","blue","green"]
```

```
    If S(0)= "i":
```

```
        print(S)
```

6) What does the following expression evaluate to ? (4)

Suppose l is a list with contents

```
["there","are",["ten","mangoes"],"in","that","basket"]
```

i) `print(l[1][0::2])`

ii) `print(l[:3])`

iii) `print(l[:1]+l[1:-1])`

iv) `print('o' in l[2][1])`
