Lesson 9: Conditional & Iterative Statements

A.   (Q1 to Q20) There are four options against each question. Choose the option which you   consider the most appropriate as your answer.

1. What is the output of the following?

```
x = ['ab', 'cd']
for i in x:
    i.upper()
print(x)
```

a) ['ab', 'cd'].

b) ['AB', 'CD'].

c) [None, None].

d) none of the mentioned

2. What is the output of the following?

```
x = ['ab', 'cd']
for i in x:
    x.append(i.upper())
print(x)
```

a) ['AB', 'CD'].

b) ['ab', 'cd', 'AB', 'CD'].

c) ['ab', 'cd'].

d) none of the mentioned

3. What is the output of the following?

```
i = 1
while True:
    if i%3 == 0:
        break
    print(i)
```

```
    i + = 1
```

a) 1 2

b) 1 2 3

c) error

d) none of the mentioned

4. What is the output of the following?

```
i = 1
while True:
    if i%0O7 == 0:
        break
    print(i)
    i += 1
```

a) 1 2 3 4 5 6

b) 1 2 3 4 5 6 7

c) error

d) none of the mentioned

5. What is the output of the following?

```
i = 5
while True:
    if i%0O11 == 0:
        break
    print(i)
    i += 1
```

a) 5 6 7 8 9 10

b) 5 6 7 8

c) 5 6

d) error

6. What is the output of the following?

```
i = 5
while True:
    if i%0O9 == 0:
        break
```

```
    print(i)
    i += 1
```
a) 5 6 7 8

b) 5 6 7 8 9

c) 5 6 7 8 9 10 11 12 13 14 15 ….

d) error

7. What is the output of the following?

```
i = 1
while True:
    if i%2 == 0:
        break
    print(i)
    i += 2
```
a) 1

b) 1 2

c) 1 2 3 4 5 6 …

d) 1 3 5 7 9 11 …

8. What is the output of the following?

```
i = 2
while True:
    if i%3 == 0:
        break
    print(i)
    i += 2
```
a) 2 4 6 8 10 …

b) 2 4

c) 2 3

d) error

9. What is the output of the following?

```
i = 1
while False:
    if i%2 == 0:
        break
```

```
    print(i)
    i += 2
```
a) 1

b) 1 3 5 7 …

c) 1 2 3 4 …

d) none of the mentioned

10. What is the output of the following?

```
True = False
while True:
    print(True)
    break
```

a) True

b) False

c) None

d) none of the mentioned

11. What is the output of the following?

```
i = 0
while i < 5:
    print(i)
    i += 1
    if i == 3:
        break
else:
    print(0)
```

a) 0 1 2 0

b) 0 1 2

c) error

d) none of the mentioned

12. What is the output of the following?

```
i = 0
while i < 3:
    print(i)
```

```
    i += 1
else:
    print(0)
```

a) 0 1 2 3 0

b) 0 1 2 0

c) 0 1 2

d) error

13. What is the output of the following?

```
x = "abcdef"
while i in x:
    print(i, end=" ")
```

a) a b c d e f

b) abcdef

c) i i i i i i ...

d) error

14. What is the output of the following?

```
x = "abcdef"
i = "i"
while i in x:
    print(i, end=" ")
```

a) no output

b) i i i i i i ...

c) a b c d e f

d) abcdef

15. What is the output of the following?

```
x = 'abcd'
for i in x:
    print(i.upper())
```

a) a b c d

b) A B C D

c) a B C D

d) error

16. What is the output of the following?

```
x = 'abcd'
for i in range(len(x)):
    i.upper()
print (x)
```

a) a b c d

b) 0 1 2 3

c) error

d) none of the mentioned

17. What is the output of the following?

```
x = 'abcd'
for i in range(len(x)):
    x = 'a'
    print(x)
```

a) a

b) abcd abcd abcd

c) a a a a

d) none of the mentioned

18. What is the output of the following?

```
x = 'abcd'
for i in range(len(x)):
    print(x)
    x = 'a'
```

a) a

b) abcd abcd abcd abcd

c) a a a a

d) none of the mentioned

19. What is the output of the following?

```
x = 123
for i in x:
    print(i)
```

a) 1 2 3

b) 123

c) error

d) none of the mentioned

20 . What is the output of the following?

d = {0: 'a', 1: 'b', 2: 'c'}

for i in d:

   print(i)

a) 0 1 2

b) a b c

c) 0 a 1 b 2 c

d) none of the mentioned

B. Short Answer Questions:

1. Explain the types control structures.
2. Write the syntax of if condition in Python.
3. Write the syntax of while loop in Python.
4. Differentiate between break and continue.
5. Write the syntax of for loop in Python.

C. Long Answer Questions:

1. Write a program to check the entered number is Armstrong number or not

2. Write a program to check the given number is prime or not.

3. Write a program to print Fibonacci series up to N.

4. Write a program to check the number is palindrome or not.

5. Write a program to print prime number upto N