STD: XII **JULY MONTHLY TEST** **Lessons: 5 - 7**
Marks: 50 / Time: 1.30 Hrs. **COMPUTER SCIENCE**

PART– I

I. Choose the correct answers. **10 X 1 = 10**

1. The Python prompt indicates that Interpreter is ready to accept instruction.
   a) >>> b) <<< c) # d) <<
2. Which of the following is not a token?
   a) Interpreter b) Identifiers c) Keyword d) Operators
3. Python uses _____to define program blocks.
   a) Space and Tabs b) White space c) a and b d) None of these
4. What plays a vital role in Python programming?
   a) Statements b) Control c) Structure d) Indentation
5. What is the output of the following snippet?

```
i=1
while True:
 if i%3 = =0:
   break
   print(i,end=' ')
   i +=1
```

   a) 12 b) 123 c) 1234 d) 124
6. _____supports the use of sequence to format the output to the user choice.
   a) Print( ) b) Range ( ) c) { } d) ( )
7. A named blocks of code that are designed to do one specific job is called as
   a) Loop b) Branching c) Function d) Block
8. While defining a function which of the following symbol is used.
   a) ; (semicolon) b) . (dot) c) : (colon) d) $ (dollar)
9. _____ arguments will invoke the function the function after the parameters are recognized by their names?
   a) Keyword b) Required c) Variable-Length d) Default
10. _____works like a loop but sometimes it make more sense to use recursion than loop.
   a) Recursion b) Looping c) Iteration d) Repeating function

PART– II

II. Answer any five questions. Question No. 17 is compulsory: **5 X 2 = 10**

11. Write short notes on Tokens.
12. What is a literal? Explain the types of literals ?
13. Write note on range () in loop
14. Write the output for the following code:

```
n = 100
sum = 0
for counter in range(1,n+1):
sum = sum + counter
print("Sum of 1 until %d: %d" % (n,sum))
```

15. How to set the limit for recursive function? Give an example.
16. What is meant by scope of variable? Mention its types.

17. How will you pass a parameter in function?

PART– III

III. Answer any five questions. Question No. 24 is compulsory: **5 X 3 = 15**

18. Explain Ternary operator with examples.
19. What are string literals? Explain.
20. Write a program to display

```
A
A B
A B C
A B C D
A B C D E
```

21. Write note on if..else structure.
22. Differentiate ceil() and floor() function?
23. What are the points to be noted while defining a function?
24. Write the Output for the following code:

```
a= 5
b= 2
c= 3.0
print (pow (a,b))
print (pow (a,c))
print (pow +b,3))
```

PART– IV

IV. Answer all the questions. **3 X 5 = 15**

25.a) Explain input() and print() functions with examples. **(OR)**

b) Write the Output of the below snippet

```
a = 0b1010
b = 100
c = 0o310
d = 0x12c
print ("Integer Literals :",a,b,c,d)
#Float Literal
float_1 = 10.5
float_2 = 1.5e2
print ("Float Literals :",float_1,float_2)
x = 1 + 3.14 j
print ("Complex Literals :")
Print ("x = ", x , "Imaginary part of x = ", x.imag, "Real part of x = ", x.real)
```

26. a) Write a detail note on for loop **(OR)**

b) Write a program to display multiplication table for a given number

27. a) Explain the different types of function with an example. **(OR)**

b) Explain the following built-in functions.

(i) id() (ii) chr() (iii) round() (iv) type() (v) pow()