

## MONTHLY EXAM – AUGUST 2024

CLASS : 12 ( Chapter 7 to 10 )  
 SUBJECT: COMPUTER SCIENCE

MARKS : 50  
 TIME : 2 HRS

### I. CHOOSE THE CORRECT ANSWER:

**10 X 1 = 10**

1. A named blocks of code that are designed to do one specific job is called as  
 A) Loop                      B) Branching      C) Function                      D) Block
2. Let list1= [2, 4, 6, 8, 10], then print (List1 [-2]) will result in  
 A) 10                      B) 8                      C) 4                      D) 6
3. Defining strings within triple quotes allows creating:  
 A) Single Line Strings                      B) Multiline Strings  
 C) Double Line Strings                      D) Multiple Strings
4. Which of the following keyword is used to exit a function block?  
 A) Define                      B) return                      C) finally                      D) def
5. A Function which calls itself is called as  
 A) Built-In                      B) Recursion      C) Lambda                      D) Return
6. Which of the following operator is used for concatenation?  
 A) +                      B) &                      C) \*                      D) =
7. Strings in python:  
 A) Changeable      B) Mutable                      C) Immutable                      D) Flexible
8. Which of the following is used as placeholders or replacement fields which get replaced along with format ( ) function?  
 A) {}                      B) <>                      C) ++                      D) ^^
9. Which of the following function is used to count the number of elements in a list?  
 A) count()      B) find()                      C)len()                      D) index()
10. Which of the following is the private class variable?  
 A) \_\_num                      B) ##num                      C) \$\$num                      D) &&num

### II. Answer the following questions: (Any 5)

**5 X 2 = 10**

11. Define function.
12. Define global scope.
13. What are the main advantages of function?
14. What is base condition in recursive function?
15. How will you access the list elements in reverse order?
16. What is instantiation?

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### III. Answer the following questions: (Any 5)

**5 X 3 = 15**

17. Differentiate ceil() and floor() function.
18. What is composition in functions?

- 19. What are the points to be noted while defining a function?
- 20. What are the advantages of tuple over a list?
- 21. List out the set operations supported by python.
- 22. Write a class with two private class variables and print the sum using a method.

**IV. Answer in Detail: (Any 3)**

**3 X 5 = 15**

- 23. Write a detail note on for loop.
- 24. Explain the different types of function with an example.
- 25. What is the purpose of range( )? Explain with an example.
- 26. Explain the different set operations supported by python with suitable example.

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