FIRST MID TERM TEST - 2024

STANDARD - XII

COMPUTER SCIENCE

TIME: 1.30 HRS   **MARKS:50**

PART - A

I Choose the correct answer   **10x1=10**

1. The small sections of code that are used to perform a particular task is called
   a) subroutines   b) files   c) Pseudo code   d) Modules

2. Which of the following is a compound structure?
   a) Pair   b) Tripler   c) Single   d) quadrat

3. Which members are accessible from outside the class?
   a) Public members   b) Protected members
   c) Pecused members   d) Private members

4. Two main measures for the efficiency of an algorithm are
   a) Processor and memory   b) Complexity and capacity
   c) Time and space   d) Data and space

5. Which of the following shortcut is used to create new python program?
   a) Ctrl + C   b) Ctrl + F   c) Ctrl + B   d) Ctrl + N

6. Which operator is also called as conditional operator?
   a) Ternary   b) Relational   c) Logical   d) Assignment

7. What plays a Vital role in Python Programming?
   a) Statements   b) Control   c) Structure   d) Indentation

8. Which amongst this is not a jump statement?
   a) for   b) pass   c) continue   d) break

9. Binary search is also called as
   a) Linear search   b) Sequential search
   c) Random search   d) Half-interval search

10. A function which calls itself is called as
    a) Built-in   b) Recursion   c) Lambda   d) return

PART - B

II Answer any 5 Questions. Question number 17 is compulsory.   **5x2=10**

11. What is subroutine?

12. Differentiate constructors and selectors?

13. What do you mean by Namespaces?

14. What is an Algorithm?
15. Write short notes on Tokens.
16. Write the different types of function.
17. Write note on range ( ) in loop.

PART - C

III   Answer any 5 Questions. Question number 23 is compulsory.   5x3=15

18. Differentiate pure and impure function.
19. What are the different ways to access the elements of a list. Give example.
20. Write a note on Asymptotic notation.
21. What are String literals? Explain
22. Write short notes on Arithmetic operator with examples.
23. Write note on if ... else structure.
24. Why access control is required?

PART - D

IV   Answer all the Questions.   3x5=15

25. a) What are called parameters and write a note on
     i) Parameter without type.
     ii) Parameter with type.

         (OR)

   b) Explain the types of scopes for variables or LEGB rule with example.

26. a) What is Binary search? Discuss with example.

         (OR)

   b) Explain input ( ) and print ( ) functions with example.

27. a) Write a detail note on for loop.

         (OR)

   b) How will you facilitate data abstraction. Explain it with suitable example.

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