FMM

# FIRST MID TERM TEST - 2024

## 12 - Std

## COMPUTER SCIENCE

Time : 1.30 Hrs.

MARKS : 35

## PART – A

**Answer all the Questions:**                    **10 x 1 = 10**

1. Which of the following carries out the instructions defined in the interface?

   a) operating system        b) compiler

   c) implementation        d) interpreter

2. Which of the following is a compound structure?

   a) pair        b) triplet        c) single        d) quadrat

3. The process of binding a variable name with an object is called

   a) scope        b) mapping

   c) late binding        d) early binding

4. In dynamic programming, the technique of storing the previously calculated values is called?

   a) saving value property        b) storing value property

   c) memoization        d) mapping

5. Who developed Python?

   a) Ritche        b) Guido Van Rossum        c) Bill Gates        d) Sunder Pitchai

6. Which of the most comfortable loop?

   a) do...while        b) while        c) for        d) if...elif

7. Which of the following functions that build the abstract data type?

   a) Constructors        b) Destructors

   c) Recursive        d) Nested

8. The word comes from the name of a Persian mathematician Abu Ja'far Mohammed ibn-iMusa al Khowarizmi is called?

   a) flowchart        b) flow        c) algorithm        d) syntax

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9.  Phython uses ..................... to define program blocks
    a) flowchart    b) white space    c) algorithm    d) operator

10. ................. is a simple sorting algorithm.
    a) insertion sort                  b) selection sort
    c) bubble sort                     d) none of these

## PART - B

**Write any three questions (Compulsory question No. 14)**     3 X 2 = 6

11. Differentiate interface and implementation.
12. What is known as Data Abstraction?
13. What is Searching?
14. What are the different modes that can be used to test Python Programs?

## PART - C

**Write any three questions.**

**(Compulsory question No. 18)**                      3 X 3 = 9

15. Differentiate pure and impure functions.
16. How does Python represent the private and protected access specifiers.
17. Write the characteristics of an algorithm.
18. Write a program to find the sum of two numbers in Phthon.

## PART - D

**Answer all the questions.**                        2 X 5 = 10

19. What are called Parameters and write a note on
    i) Parameter with type       ii) Parameter without type. *(OR)*
    Explain the types of scopes for variable or LEGB rule with example.

20. Discuss in detail about Tokens in Python. *(OR)*
    Write a detail note on if .... elif..... else statement with suitable example.