

MONTHLY TEST, JUNE - 2025

12 -Std

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COMPUTER SCIENCE

Time : 1.30 hrs

Max.Marks : 50

PART-I

- I. Choose the best answer 10x1=10
- Which of the following is a distinct syntactic block?
 - Subroutines
 - Function
 - Definition
 - Modules
 - The values which are passed to a function definition are called
 - Arguments
 - Subroutines
 - Function
 - Definition
 - Which of the following are mandatory to write the type annotations in the function definition?
 - { }
 - ()
 - []
 - < >
 - The data structure which is a mutable ordered sequence of elements is called
 - Built in
 - List
 - Tuple
 - Derived data
 - Which of the following is a compound structure?
 - Pair
 - Triplet
 - single
 - quadrat
 - Bundling two values together into one can be considered as
 - Pair
 - Triplet
 - single
 - quadrat
 - Which scope refers to variables defined in current function?
 - Local Scope
 - Global scope
 - Module scope
 - Function Scope
 - Which of the following security technique that regulates who can use resources in a computing environment?
 - Password
 - Authentication
 - Access control
 - Certification
 - Which members are accessible from outside the class?
 - Public members
 - Protected members
 - Secured members
 - Private members
 - How many methods are there to access elements in a list?
 - 1
 - 2
 - 3
 - 4

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II. Answer any 5 questions, Q.No 17- is compulsory. 5x2=10

11. What is a Subroutine?
12. Differentiate interface and implementation.
13. What is abstract data type?
14. What is a List? Give an example.
15. What is Mapping?
16. What do you mean by Namespaces?
17. What is called as recursive function?

III. Answer any 5 questions, Q.No 24- is compulsory. 5x3=15

18. Why strlen is called pure function?
19. What is the side effect of impure function. Give example.
20. Which strategy is used for program designing? Define that Strategy.
21. What are the different ways to access the elements of a list. Give example.
22. Why access control is required?
23. Write any Three Characteristics of Modules.
24. Identify Which of the following are List, Tuple and class?
 - (a) arr [1, 2, 34]
 - (b) arr (1, 2, 34)
 - (c) student [rno, name, mark]
 - (d) day:= ('sun', 'mon', 'tue', 'wed')
 - (e) x:= [2, 5, 6.5, [5, 6], 8.2]
 - (f) employee [eno, ename, esal, eaddress]

IV. Answer all the questions.

3x5=15

25. a) Explain with example Pure and impure functions.

(OR)

- b) Explain with an example interface and implementation.

26. a) How will you facilitate data abstraction. Explain it with suitable example. **(OR)**

- b) How will you access the multi-item. Explain with example.

27. a) Explain the types of scopes for variable with example.

(OR)

- b) Write any five benefits in using modular programming.

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