TRICHY

TC

COMMON FIRST MID-TERM TEST - 2019

Time: 1.30 hours.

Standard XII
COMPUTER SCIENCE

Reg.No. ☐☐☐☐☐☐

Marks: 50

Part - I

I. Choose the correct answer: 10 x 1 = 10

1. The variables in a function definition are called as _____.
   a) function
   b) subroutines
   c) parameters
   d) modules

2. Which of the following functions that retrieve information from the data type?
   a) constructors
   b) selectors
   c) recursive
   d) nested

3. The process of binding variables name with an object is called
   a) scope
   b) mapping
   c) binding
   d) late binding

4. Which scope refers to variables defined in current function?
   a) local scope
   b) global scope
   c) module scope
   d) function scope

5. 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

6. The python prompt which indicates that interpreter is ready to accept instruction is
   _____.
   a) <<<
   b) #
   c) >>>
   d) >>

7. _____ character is used to give comments in python.
   a) >>>
   b) #
   c) &
   d) @

8. There are _____ important control structures in python.
   a) 3
   b) 4
   c) 5
   d) 6

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

10. _____ symbol is used while defining a function.
    a) ;
    b) .
    c) :
    d) &

Part - II

II. Answer any 5 questions: (Ques.No.14 is compulsory)   5 x 2 = 10

11. Differentiate interface and implementation.
12. What is abstract data type?
13. What is scope? List their types.
14. What is sorting?
15. Write a short note on Tokens.

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16. Write note on range( ) in loop.
17. What are the main advantages of function?
18. Differentiate lower( ) and islower( ) function.

Part - III

III. Answer any 5 questions: (Ques.No.24 is compulsory)   5 x 3 = 15

19. Differentiate pure and impure function.
20. Identify which of the following are list or tubles.
    i)   a = [10,20,45]
    ii) day = ('S', 'M', 'T')
    iii) y = [5,8,10, [2,3.4], 15]
21. Define global scope with an example.
22. List any six (6) characteristics of an algorithm.
23. Tabulate the arithmetic operators with example.
24. State the differences between break and continue statements.
25. Differentiate ceil( ) and floor( ) functions.
26. Write a short note about len( ) function with example.

Part - IV

IV. Answer all the questions: 3 x 5 = 15

27. a) Explain the types of scopes for variables. [LEGB]
                            (or)
    b) How will you facilitate data abstraction? Explain it.
28. a) What is binary search? Discuss with example.
                            (or)
    b) Explain for loop with syntax and example.
29. Explain any 5 built-in mathematical functions with example.
                            (or)
    b) Explain any 5 string functions with example.

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