FM

12-Std

FIRST MID TERM TEST - 2023

Time: 1.30 Hrs

COMPUTER SCIENCE

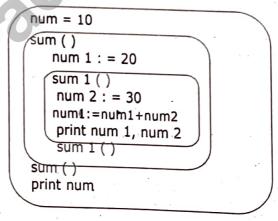
Marks: 35

Choose the correct answer: I 1.

 $5 \times 1 = 5$

Which of the following is a distinct syntactic block? a) Subroutines b) Definition

- 2. Which of the following allow to name the various parts of a multi-item object ? c) Function
- b) Lists Which of the following is not the example of modules? c) Classes 3. d) CDT
 - a) Procedures
 - b) Subroutines c) Class d) Functions
- Theoretical performance analysis of an algorithm is called 4. a) Priori estimate
- b) Posteriori testing c) Space factor d) Time Factor 5.
- Which key is pressed to execute Python script? a) F5 b) F2
- П Answer any Four questions and Question number 11 is compulsory: 4x2=86.
- What is Pure function? Give an example. 7.
- What is Abstract Data type (ADT) ? 8.
- What is Enclosed scope? 9.
- Define Control structure. 10.
- What is literal? What are the types of literals?
- What is Insertion sort? 11.
- Ш Answer any Four questions and question number 17 is compulsory. $4 \times 3 = 12$ 12
- What happens if you modify a variable outside the function? Give an example. 13
- What are the different ways to access the elements of a list. Give example. 14
- What do you understand by Dynamic programming? 15
- Write short notes on Escape sequences with examples. 16
- Write note on range() in loop.
- Identify the scope of variable 17 in the following pseudo code.



IV Answer all the questions.

Identify in the following program. 18

 $2 \times 5 = 10$

let rec sum num:=

if (num!=0) then return num+sum(num-1) else

return num

- a) Name of the function.
- b) Identify the statement which tells it is a recursive function
- c) Name of the argument variable. d) Statement which invoke the function recursively
- e) Statement which terminates the recursion.

(OR)

Explain the Bubble sort algorithm with example.

Explain the types of scopes for variable. (OR) 19. Discuss in detail about Tokens in Python.

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Kindly send me your study materials to padasalai.net@gmail.com