

First Half Portion Question paper-2024

Class : XII

Subject : Computer Science

Marks : 70

Time : 3 Hrs

I. Choose the correct answer

1X15=15

- The variables in a function definition are called as
(A) Subroutines (B) Function (C) Definition (D) Parameters
- The values which are passed to a function definition are called
(A) Arguments (B) Subroutines (C) Function (D) Definition
- The data type whose representation is known are called
(A) Built in datatype (B) Derived datatype (C) Concrete datatype (D) Abstract datatype
- The data type whose representation is unknown are called
(A) Built in datatype (B) Derived datatype (C) Concrete datatype (D) Abstract datatype
- The process of binding a variable name with an object is called
(A) Scope (B) Mapping (C) late binding (D) early binding
- Which of the following is used in programming languages to map the variable and object?
(A) :: (B) := (C) = (D) ==
- From the following sorting algorithms which algorithm needs the minimum number of swaps?
(A) Bubble sort (B) Insertion sort (C) Selection sort (D) All the above
- 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
- The Python prompt indicates that Interpreter is ready to accept instruction.
(A) >>> (B) <<< (C) # (D) <<
- Which of the following shortcut is used to create new Python Program ?
(A) Ctrl + C (B) Ctrl + F (C) Ctrl + B (D) Ctrl + N
- elif can be considered to be abbreviation of
(A) nested if (B) if..else (C) else if (D) if..elif
- What plays a vital role in Python programming?
(A) Statements (B) Control (C) Structure (D) Indentation
- Which of the following keyword is used to begin the function block?
(A) define (B) for (C) finally (D) def
- Which of the following keyword is used to exit a function block?
(A) define (B) return (C) finally (D) def
- Strings in python: (A) Changeable (B) Mutable (C) Immutable (D) flexible

II. Answer any six questions. Q.NO:24 is compulsory

6X2=12

- Write the inference you get from X:=(78).
- What is a List? Give an example.
- What is Mapping?
- What is Sorting?
- Write short notes on Exponent data?
- Define control structure.
- Define global scope
- What will be the output of the following python code?
str1 = "School"
print(str1*3)
- What is slicing?

III. Answer any six questions. Q.NO:33 is compulsory

6X3=18

- Differentiate pure and impure function.
- Which strategy is used for program designing? Define that Strategy
- Define Enclosed scope with an example
- Write a note on Asymptotic notation
- What are string literals? Explain.
- Write a program to display
A
A B
A B C
A B C D
A B C D E
- What is composition in functions?
- Write a short about the followings with suitable example:
(a) capitalize() (b) swapcase()
- Write a note about count() function in python

IV. Write in any five questions:

5X5=25

- Explain with an example interface and implementation
- What is a List? Why List can be called as Pairs. Explain with suitable example
- Explain the types of scopes for variable or LEGB rule with example.
- What is Binary search? Discuss with example
- Explain input() and print() functions with examples.
- Write a program to display all 3 digit odd numbers.
- Explain the following built-in functions.
A. id() B. chr() C. round() D. type() E. pow()
- Explain about string operators in python with suitable example

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