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Time : 1 Hour

SECOND-TERM**SOFTWARE
TECHNOLOGY**

Subject Code

V	5	3	1	5
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Total No. of Questions : 12 (Printed Pages : 2)

Maximum Marks : 20

- INSTRUCTIONS :**
- Write the question numbers clearly.
 - The question paper consists of 12 questions divided into three sections A, B and C.
 - Section A contains 4 questions of 1 mark each.
 - Section B contains 5 questions of 2 marks each. Answer these in 3-4 sentences each.
 - Section C contains 3 questions of 3 marks each. Internal choice is provided between Question 10 and Question 11.

SECTION A

Question numbers from 1 to 4 carry 1 mark each.

- What is the use of len() function in Tuple ?
- Why are tuples referred to as immutable ?
- Define Encapsulation.
- Write the syntax to create a class.

SECTION B

Question numbers from 5 to 9 carry 2 marks each.

- State any two advantages of Object-Oriented Programming.
- Write two differences between Class Attribute and Instance Attribute.

7. Why is inheritance a powerful feature in object-oriented programming ?
8. What is Single Inheritance ? State the other *four* categories of Inheritance.
9. Define Namespace. Give examples of namespaces with respect to Python.

SECTION C (Any Two)

Question numbers from 10 to 12 carry 3 marks each. (Answer any *one* from Q. 10 and Q. 11) :

10. Write a Python program using Tuples, given the original tuple :

T = (1, 2, 3, 4, 5, 6), to generate the following output :

T1 = (1, 3, 5)

T2 = (2, 4, 6)

Or

11. Write a Python program to input 5 subject names and put it in a tuple and display the tuple information on the output screen.
12. What is Polymorphism ? Explain the overloading methods of Polymorphism.