

- N.B. (1) All questions are **compulsory**.  
(2) Figures to the right indicate marks.  
(3) Answers to the same question must be written together.  
(4) Mixing of sub-questions is not allowed.

**Q1. Attempt any three of the following.**

15

- What is variable? What are the rules and conventions for declaring a variable?
- Explain if \_\_else statement with an example.
- Explain the features of Python programming.
- What is the difference between interactive mode and script mode in Python?
- Write a Python program to find out the largest number among two numbers?
- Write a program to demonstrate use of Looping Statement.

**Q2. Attempt any three of the following.**

15

- Explain any five basic operations performed on string.
- Discuss the difference between local variable and global variable.
- What is import? Explain ways of importing Python.
- How to achieve type conversion in Python?
- Explain any five math functions in Python in detail.
- Write a Python program to calculate factorial of a number using recursive function.

**Q3. Attempt any three of the following.**

15

- How to traverse and delete the elements in the list?
- What is dictionary? How create and access it?
- What are lists? How to define and access the elements of list.
- Explain file object attributes and file methods.
- Write a short note on exception handling mechanism in Python.
- Explain open ( ) and close ( ) methods for opening and closing file.

**Q4. Attempt any three of the following.**

15

- Explain match function explain with example.
- What are regular expressions? Explain any five patterns.
- Write a Python program to demonstrate on Constructor.
- Explain math module with its any five functions.
- What is multithreading? Write a short note on thread module.
- What is Object Oriented Programming? Explain the concept of OOP in short.

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VCD/ SYIT SEM III PYTHON PROGRAMMING 75 MARKS 2 ½ HOURS

Q5. Attempt any three of the following.

15

- a) Write a short note on button widget.
- b) Explain the layout manager in detail.
- c) Explain in detail Message widget in Python.
- d) Write a source code in python to read single and multiple results of query execution.
- e) What is a use of Listbox widget? Give an example to add elements to listbox.
- f) Write a short note on scale and scrollbar widget.

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