

Exam. Code : 107203

Subject Code : 8096

Bachelor of Computer Application (BCA) 3<sup>rd</sup> Semester  
(Old Syllb 2018)

COMPUTATIONAL PROBLEM SOLVING USING  
PYTHON

Paper-III

Time Allowed—3 Hours] [Maximum Marks—75

Note :—Attempt FIVE questions in all, selecting at least ONE question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION-A

1. (a) What is the role of Python in computational problem solving ? Explain. 7.5
- (b) Discuss the use of logical operator by taking suitable example. 7.5
2. (a) Discuss the literals and identifiers used in Python. 7.5
- (b) Write a program to find largest among three integers. 7.5

SECTION-B

3. (a) What are nested conditions ? Explain by taking suitable example. 7.5

- (b) Write a program to remove duplicates from a list in Python. 7.5
4. What is the role of function parameters ? Write a program to reverse a string using function 15

SECTION-C

5. (a) Differentiate Iteration and Recursion. 7.5
- (b) Write a program in Python to perform matrix addition using iteration method. 7.5
6. Explain built-in functions for dictionary taking suitable example of each. 15

SECTION-D

7. Differentiate the following :
  - (a) Class vs Object 10
  - (b) Read ( ) vs Readline( ) 5
8. Explain the following concepts :
  - (a) Modules of Python 7.5
  - (b) Database Programming using Python 7.5