

## BCA (Honours) 5th Semester Examination, 2022

## Subject : Computer Application

## Course : BCA-503

## (Python)

Time: 4 Hours

Full Marks: 80

*The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words  
as far as practicable.**Answer Question No. 1 and any four questions from the rest.*

1. Answer any eight questions: 2×8=16
- (a) Compare Python with C language.
  - (b) What are the key features of Python?
  - (c) What is an identifier in Python?
  - (d) What is pep 8?
  - (e) How is memory managed in Python?
  - (f) Python is an interpreted language. Explain.
  - (g) What is Python path?
  - (h) What is recursion?
  - (i) What are Python modulus?
  - (j) Are arguments in Python passed by value or by reference?
  - (k) What is the difference between a list and a table?
2. (a) What is Docstring in Python?  
 (b) What is structured programming in context of Python language?  
 (c) Write a Python program to find out GCD of two numbers. 4+4+8
3. (a) Write the basic operation of Queue.  
 (b) How do you use the `split()` function in Python?  
 (c) Implement queue operation using array in Python. 2+4+10
4. (a) What is Python Path?  
 (b) Explain scope in Python.  
 (c) Write a Python code that perform linear search technique. 2+2+12

Please Turn Over

- 5. (a) List the common built-in data types in Python.  
(b) Write a Python-program to perform bubble sorting. 4+12
  
  - 6. (a) Write a Python-program that find out factorial of a number using recursion.  
(b) Write a menu driven program using user defined functions to find the area of circle and a rectangle in Python programming. 8+8
  
  - 7. (a) Write a Python program to add two matrices.  
(b) Implement simple stock operation using Python.  
(c) What are global, protected and private attributes in Python? 6+6+4
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