BCA(Hons) 5th Semester Examination, 2020 Subject : Computer Application Paper : BCA-503 (Python Programming)

Full Marks: 80

Time: 3 Hours

1.Answer any six question: 6x5=30

- (a) Discuss the benefits of Open Source software.
- (b) Write a Python program to generate first 'N' Fibonacci numbers.
- (c) Explain while loop and if statement in Python with an example .
- (d) Write a Python program to calculate the GCD of two integers.
- (e) What is dictionary in Python? Explain it with an example.
- (f) Differentiate between Range and Xrange in python

(g) Discuss memory management in Python? How do you slice a list in Python?

(h) What is structured programming in context of Python language?

2. Answer any five question:

5x10=50

(a)Write a Python program to calculate product of two compatible matrices.

(b) Explain various data types in Python. What is namespace in Python?

(c) Write a menu driven program using user defined functions to find the area of a circle and square in Python programming.

- (d)Write a Python program to check whether a number is prime or not. Write a Python program to find factorial of a number
- (e)Briefly explain stack diagrams for recursive functions in Python.
- (f) Discuss different list operations of Python. What is Python PATH?
- (g)Write short notes on the following.
 - (i) Ternary operators in Python.
 - (ii) Usage of negative indexes.