

BCA 5th Semester (Honours)
Examination,2021(CBCS)
Subject : Computer Application
Paper : BCA-503(Python Programming)

Time: 3 Hours

Full Marks: 80

A)Answer any six question:

6 x 5 = 30

- 1.(a) What is an identifier in Python?
(b) Write a Python program to calculate the GCD of two numbers. 1+4=5
- 2.(a) What type of language is Python?
(b) Write a Python program to find factorial of a number. 1+4=5
- 3.(a) What is the difference between list and tuple.
(b) Write a Python program to generate first 'N' Fibonacci numbers. 1+4=5
- 4.(a) Compare Python with C language.
(b) Explain various data types in Python. 2+3=5
- 5.(a) What is python path?
(b) Mention six benefits of using Python. 2+3=5
- 6.(a) What is recursion?
(b)Write a Python program using recursion to generate ten odd number. 2+3=5
- 7.(a) What is namespace in Python?
(b) Write a Python program to check whether a number is prime or not. 1+4=5
- 8.(a) What are Python modules?
(b) Explain with example while loop and if statement in Python. 2+3=5

B)Answer any five questions:

5 x 10 = 50

1.(a) Write the basic operations of a stack.

(b) Write a program to implement simple stack using Python. 2+8=10

2.(a) What is structured programming in context of Python language?

(b) What is dictionary in Python? Write a program using dictionary. 2+(2+6)=10

3. Write a Python program to perform bubble sorting.

10

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

10

5.(a) How is memory managed in Python ?

(b) Write a Python program to find sum of series

$$S = \frac{1}{1!} - \frac{2}{2!} + \frac{3}{3!} - \frac{4}{4!} + \dots - \frac{n}{n!}$$

2+8=10

6. Write a Python code that perform binary search technique.

10

7. Write a Python program to multiply two matrices.

10