Total No. of Questions : **11** ]  [ Total No. of Printed Pages : **3**

# BC–289

## B.C.A. (Part-II) Examination, 2022

## PYTHON

Paper - BCA-206 (A)

*Time : 3 Hours* ]  [ *Maximum Marks : 70*

**Section–A**  **(Marks : 2 × 10 = 20)**

*Note* :–  Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

**Section–B**  **(Marks : 4 × 5 = 20)**

*Note* :–  Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **4** marks.

**Section–C**  **(Marks : 10 × 3 = 30)**

*Note* :–  Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

**Section–A**

1. (i)  How to write multiline comments in Python ?

   (ii)  Explain ternary expression in Python.

   (iii)  Difference between list and set.

(iv)  Write a Python script to join two list.

(v)  Write full form of Numpy and how to install numpy (write command only) ?

(vi)  How to create Array in Python using Numpy ?

(vii)  How to create series using Scalar Value ?

(viii)  Explain data frame head and tail function.

(ix)  Write a Python Script to draw line plot using Matplotlip.

(x)  What is Scipy ?

### Section–B

2.  Explain type carting in Pyhton.

*Or*

Explain loops in Python.

3.  How to Access and Add Item in List ?

*Or*

How to remove and copy items in Dictionary ?

4.  Explain Lambda functions in Python.

*Or*

Explain objects and method in Python.

5.  Explain any *two* data structure of Pandas.

*Or*

How to create series using Numpy and Dictionary ?

6.  Write the applications of Python.

*Or*

How to create histograms in Python using Matplotlib ?

**Section–C**

7. Explain the following :

    (i)    Indentation

    (ii)   Scalar Data Type

    (iii)  Range Function

    (iv)   Pass

8. Explain functions in Python. How to return multiple values from function with suitable example ?

9. How to Access 1-D, 2-D and 3-D Array using Numpy with suitable example ?

10. Explain the following :

    (i)    How to read data from CSU file ?

    (ii)   How to create dataframe object ?

    (iii)  Difference between loc and iloc.

    (iv)   Dropna and mean.

11. Explain Exception Handling in Python with inbuilt exception using suitable example.