

Roll No. :

Total No. of Questions : 11]

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SCA-270

B.C.A. Part-III Due of Part-II (Supplementary) Examination, 2022

PYTHON

Paper : BCA - 206 (A)

Time : 1½ 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) Write the syntax to import a module in Python.
- (ii) What do you mean by ternary expressions ?
- (iii) Write *one* major difference between tuples and lists in Python.

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(1)

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(iv) List 1 = [a, b, c, d], what will following statement print ?

list 1[1 : 2]

(v) What do you mean by Lambda functions ?

(vi) For what purpose Numpy package is used in Python ?

(vii) What does reshape in Pandas do ?

(viii) When do you use corr in Pandas ?

(ix) What is the main purpose of using scikit learn in Python ?

(x) Write any *two* applications of Python.

Section-B

2. Explain the importance of indentation in Python.

Or

Why writing code in Jupyter notebook is easy ?

3. Explain the concept of dictionary in Python.

Or

Describe the concept of namespaces and scope in Python.

4. Write a Python program to generate five random numbers between 1 and 100.

Or

Explain the concept of arithmetic with Numpy arrays.

5. Explain the working of dataframes in Pandas.

Or

Describe how to read data from a CSV file in Pandas ?

6. Write a program in Python to show the data in scatter plots.

Or

How do you perform basic file handling ? Explain.

Section–C

7. Write a program to find the some given number is prime or not.
8. Write a function in Python to demonstrate the returning of multiple values.
9. Explain the working with multi-dimensional arrays using Numpy.
10. Explain any *five* operations for dataframes, with appropriate functions, with suitable examples.
11. Explain the following :
 - (i) Exception handling
 - (ii) Network package
 - (iii) Scipy package
 - (iv) Plotting basic figures using matplotlib