B.Sc. (Data Science) (NEP) First Year Semester-I

BSCDS013 : Introduction to Programming

P. Pages : 1
Time : Two Hours

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GUG/W/24/15257
Max. Marks : 40

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1. a) Describe comparison of Python with "C" and Java. 4

   b) Explain various features of Python. 4

   OR

   c) Explain various Data Types in Python. 4

   d) Explain various control statement in Python. 4

2. a) Explain Array in Detail. 4

   b) What is Function? And explain built-in function. 4

   OR

   c) Describe various types of operators. 4

   d) Describe string and explain indexing and slicing. 4

3. a) Describe various functions of Data and Time. 4

   b) What is Regular Expression? 4

   OR

   c) Write difference between List and Dictionary. 4

   d) Explain Dictionary in detail. 4

4. a) Describe IPython and Sheel command. 4

   b) Explain NumPy array with example. 4

   OR

   c) Explain NumPy structured array. 4

   d) Explain IPython magic command. 4

5. a) Explain Numeric Data Type. 2

   b) Explain recursive function with example. 2

   c) Explain Tuple. 2

   d) Explain Data Type in NumPy. 2

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