

B.Sc. (Data Science) (NEP) First Year Semester-I
BSCDS013 : Introduction to Programming

P. Pages : 1

Time : Two Hours



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
