

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

P. Pages : 1

Time : Two Hours



**GUG/W/23/15257**

Max. Marks : 40

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1. a) Explain various features of Python Language? 4  
b) Describe various control statement in python? 4
- OR**
- c) Explain various Data Types in Python? 4  
d) Describe comparison of Python with 'C' and java? 4
2. a) What is Function and explain built in function? 4  
b) Describe various types of operators? 4
- OR**
- c) Explain Arrays in details? 4  
d) Describe Strings and explain Indexing and Slicing? 4
3. a) What is Regular Expression? 4  
b) Describe various function of Date and Time. 4
- OR**
- c) Describe IPython magic commands. 4  
d) Explain Boolean logic? 4
4. a) Describe Fancy Indexing? 4  
b) Explain Sorting Arrays? 4
- OR**
- c) Explain NumPy array with example. 4  
d) Describe IPython & Shell command. 4
5. a) Explain simple line plots? 4  
b) Describe Text and Annotation? 4
- OR**
- c) Describe visualization with seaborn? 4  
d) Describe: 4  
i) eval() ii) query()

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