

Unit-wise - Question Bank

UNIT - 1

Q 1	What is user-defined functions?	4
Q 2	What is Data Science?	4

Q 3	Explain lifecycle of Data Science.	8
Q 4	Explain features of Python.	8
Q 5	Explain types of operators.	8
Q 6	Explain Type Conversion. (refer Lab Experiment 2)	8
Q 7	Differentiate between list, tuple, set and dictionary.	8

UNIT - 2

Q 1	What is self parameter?	4
Q 2	What is __init__()?	4
Q 3	What is Data Hiding?	4
Q 4	What is abstract class?	4
Q 5	What is pass statement?	4
Q 6	How to create class, object and function in Python? (refer Experiment 9)	4

Q 7	Explain methods of File Handling.	8
Q 8	Explain methods of Directory handling.	8
Q 9	Explain Exception Handling in Python.	8
Q 10	Explain types of Inheritance.	8

UNIT - 3

Q 1	What is NumPy ndarray?	4
Q 2	What is Boolean Indexing?	4
Q 3	What is slicing?	4

Q 4	Explain creation of 1D, 2D, 3D and nD array. (refer Lab Experiment – 13)	8
Q 5	Explain Intrinsic NumPy array creation. (refer Lab Experiment – 13)	8
Q 6	Explain arithmetic operations on NumPy arrays. (refer Lab Experiment – 15)	8
Q 7	Explain mathematical and set universal functions.	8

Q 8 Explain slicing in 1D, 2D and 3D NumPy array **8**

UNIT - 4

Q 1 What is Series? **4**

Q 2 What is DataFrame? **4**

Q 3 Explain methods of creation of Pandas DataFrame. (refer Lab Experiment – 17) **8**

Q 4 Explain loc[] and iloc[] **8**

Q 5 Explain the following functions: (refer Lab Experiment – 18) **8**

a) DataFrame()

b) rename()

c) drop()

d) sort_index()

e) sort_values()

f) rank()

g) where()

h) query()

Q 6 Explain ranking methods using example. **8**

UNIT - 5

Q 1 What is Outlier? **4**

Q 2 What is Data Visualization? **4**

Q 3 What is Vectorization? **4**

Q 4 Explain Data Cleaning? **8**

Q 5 Explain kinds of plotting using Pandas. **8**

Q 6 Explain String Manipulation Functions. **8**

Q 7 Explain handling of missing data **8**

Q 8 Explain replacing and removing duplicate values. **8**