



DELHI SKILL AND ENTREPRENEURSHIP UNIVERSITY

Program: BCA

End Term Examination; Semester IV AY: 2023-24

Course: Data Science Using Python

Course Code: BCA-DC-401

25

Time: 2 Hr

Max. Marks: 50

Attempt all questions. All questions carry equal marks . (Two Marks each)

SECTION-A (Short Answer Question)

- Q1: What is Data Science?
- Q2: Discuss importance of Data Science pipeline .
- Q4: Define python role in Data science.
- Q5: Illustrate the Python speed of execution.
- Q6: Differentiate between Jupyter Console with Jupyter Notebook.
- Q7: How python support working with real data?
- Q8: Describe Matplotlib, Numpy, Pandas and Scipy.
- Q9: Differentiate between Anaconda working with Miniconda working.
- Q10: Discuss Multimedia and Graphic support of python

SECTION -B (Subjective Part)

Attempt any FIVE questions. All questions carry equal marks . (Six Marks each)

- Q1: Discuss the match between Data Science and Python highlight various capabilities.
- Q2: Define and describe the data science process all steps .
- Q3: Define Data, Data type, Sampling data, Data attributes, Data formats and Datasets with example .
- Q4: Differentiate between Data Science and machine learning .
- Q5: Define the line appearance and working with lines style with diagram.
- Q6: Write python code to draw multiple lines and plots .
- Q7: Write python code to convert image to an array and print the array .