

Second Semester FYUGP Degree (Reg/Sup/Imp) Examination
April 2026

KU2DSCCSC112 - BASICS OF DATA ANALYTICS
2024 Admission onwards

Time : 1.5 hours

Maximum Marks : 50

Section A**Answer any 6 questions. Each carry 2 marks.**

1. What is the purpose of the figure() function in Matplotlib?
2. What is the difference between plt.plot() and plt.show()?
3. Mention two career opportunities in data analytics.
4. Define data analytics.
5. Write a code snippet to slice the first two rows and first three columns of a 2D array.
6. Write a program to print only first row of a csv file.
7. Which data structure in Python is unordered and does not allow duplicates? Explain.
8. What is the purpose of using the import keyword in Python?

Section B**Answer any 4 questions. Each carry 6 marks.**

9. How does the linspace() function differ from arange()? Explain with an example.
10. Demonstrate how to iterate over the elements of an array using for loops.
11. Discuss the importance of data cleaning in analytics, particularly in dealing with duplicates and missing data.
12. Explain list data structure in python and its built in methods with examples.
13. Explain math module in python.
14. Explain statistics module in python.

Section C**Answer any 1 questions. Each carry 14 marks.**

1

15. (a) Explain the functionality of the pyplot module in Matplotlib and how it simplifies the creation of visualizations. Provide an example where you plot a line graph using the plot() function.
(b) Explain four data visualization functions in python with suitable example
16. (a) Explain the features of the Python programming language.
(b) Explain branching using if, else, and elif statements in Python.