

# **PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 2025**  
**(Second Semester)**

# **Branch - COMPUTER SCIENCE WITH DATA ANALYTICS**

## **PYTHON FOR DATA ANALYSIS**

Time: Three Hours

**Maximum: 75 Marks**

**SECTION-A (10 Marks)**

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**Answer ALL questions**

**ALL** questions carry **EQUAL** marks (10 × 1 = 10)

**Cont...**

**SECTION - B (35 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 7 = 35)$ 

| Module No. | Question No. | Question  | K Level | CO  |
|------------|--------------|---|---------|-----|
| 1          | 11.a.        | Apply python character set in an example.                           | K3      | CO1 |
|            |              | (OR)  |         |     |
|            | 11.b.        | Experiment with python Inbuilt functions with an example.           |         |     |
| 2          | 12.a.        | Utilize recursive functions in an example.                          | K3      | CO2 |
|            |              | (OR)  |         |     |
|            | 12.b.        | Develop traversing string with for and while loop in an example.    |         |     |
| 3          | 13.a.        | Organize list methods of python.                                    | K3      | CO3 |
|            |              | (OR)  |         |     |
|            | 13.b.        | Construct inbuilt functions of tuples.                              |         |     |
| 4          | 14.a.        | Discuss the steps to creating dictionary.                           | K6      | CO4 |
|            |              | (OR)  |         |     |
|            | 14.b.        | Discuss input and output of text in file handling using an example. |         |     |
| 5          | 15.a.        | Experiment with how to load data from CSV files                     | K3      | CO5 |
|            |              | (OR)  |         |     |
|            | 15.b.        | Solve combine data from multiple Excel files.                       |         |     |

**SECTION -C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$ 

| Module No. | Question No. | Question  | K Level | CO  |
|------------|--------------|---|---------|-----|
| 1          | 16           | Construct decision and loop control statements with suitable example. | K3      | CO1 |
| 2          | 17           | Organize various string operations with examples.                     | K3      | CO2 |
| 3          | 18           | Select passing and returning list from a function using an example.   | K3      | CO3 |
| 4          | 19           | Develop binary files in Python.                                       | K6      | CO4 |
| 5          | 20           | Utilize data handling in excel files using python                     | K3      | CO5 |