Reg. No..... Name..... 26U299

B A, B SC, B COM DEGREE END SEMESTER EXAMINATION - APRIL 2026

UGP (HONS.) SEMESTER - 2: DISCIPLINE SPECIFIC COURSE

COURSE 24UCAPDSC106: FUNDAMENTALS OF BUSINESS ANALYTICS WITH PYTHON

(For Regular 2025 Admission and Improvement/Supplementary 2024 Admission)

Time: 1.5 hour **Maximum Marks: 50**

PART A

Answer any 5 questions. Each question carries 2 marks.

1. Name any two keywords used in Python. (U,CO1)
2. Identify the Python package is commonly used for data visualization (U,CO3)
3. Explain the purpose of indentation in Python. (U,CO1)
4. Define Boxplot and what it represents. (R,CO3)
5. List two important Python libraries used for data handling. (R,CO3)
6. Define the purpose of Pandas library in Python (U,CO3)
7. Define the purpose of Matplotlib in Python. (U,CO3)

(2 x 5 = 10)

PART B

Answer any 4 questions. Each question carries 5 marks.

8. Explain the mutable and immutable data types in Python with examples. (An,CO1)
9. Write a Python program using an if-else statement to check whether a number is even or odd. (A,CO5)
10. Explain Types of functions in Python. (A,CO3)
11. Why Data visualization is important in statistics. (An,CO4)
12. Explain the different iterative statements in python with examples (A,CO2)
13. Explain the identity operators in Python? Give an example. (U,CO2)

(5 x 4 = 20)

PART C

Answer any 2 questions. Each question carries 10 marks.

14. Discuss the Selection control statements in Python with examples. (A,CO1)
15. Explain user-defined functions in Python. Write a function that takes two numbers as input and returns their sum. (A,CO2)
16. Explain the different types of Graph used in statistical analysis. (An,CO4)

(10 x 2 = 20)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Marks
CO1	To Explain the basics of Python and installation of Python	U	1,3,8,14	19
CO2	To comprehend control flow structures such as loops conditional statements (if, elif, else), and how to use them effectively in programming logic	U	9,12,13,15	25
CO3	To define functions, understand their scope, pass arguments, and return values, facilitating code modularity and reusability.	A	2,4,5,6,7,10	15
CO4	To Apply data handling , data cleaning and treatment techniques using python	An	11,16	15
CO5	Applying statistical models for data interpretation in Python	C	9	5

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;