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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 08-10-2025

Time: 09.30am to 11.00am

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|-----------------------------|--|-----------------------|
| School: SOIS | Program: BCA | |
| Course Code: CSA3007 | Course Name: Data Analytics and Business Intelligence | |
| Semester: V | Max Marks: 50 | Weightage: 25% |

| CO - Levels | CO1 | CO2 | CO3 | CO4 | CO5 |
|--------------------|------------|------------|------------|------------|------------|
| Marks | 24 | - | 26 | | |

Instructions:

- (i) *Read all questions carefully and answer accordingly.*
- (ii) *Do not write anything on the question paper other than roll number.*

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

| | | | | |
|----------|---|----------------|-----------|------------|
| 1 | Define Data analysis | 2 Marks | L2 | CO3 |
| 2 | Enumerate the importance of data analysis | 2 Marks | L2 | CO3 |
| 3 | What are the features of Pandas library | 2 Marks | L2 | CO3 |
| 4 | Explain the reasons for data corruption | 2 Marks | L1 | CO1 |
| 5 | Explain Drop_duplicates () | 2 Marks | L1 | CO1 |

Part B

Answer the Questions.

Total Marks 40M

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|-----------|-----------|---|-----------------|-----------|------------|
| 6. | a. | Explain the benefits of data sampling | 10 Marks | L2 | CO3 |
| Or | | | | | |
| 7. | a. | Explain the Challenges in data sampling | 10 Marks | L2 | CO3 |
| Or | | | | | |
| 8. | a. | List and explain the types of data sampling | 10 Marks | L2 | CO3 |

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Or

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| 9. | a. | Explain data analysis process | 10 Marks | L2 | CO3 |
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| 10. | a. | Explain data cleaning techniques | 10 Marks | L1 | CO1 |
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Or

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| 11. | a. | Explain outliers and its type | 10 Marks | L1 | CO1 |
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| 12. | a. | How to use Boxplot and Histogram for finding outliers | 10 Marks | L1 | CO1 |
|------------|-----------|---|-----------------|-----------|------------|

Or

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|------------|-----------|--|-----------------|-----------|------------|
| 13. | a. | Explain mean and standard deviation technique for finding outliers | 10 Marks | L1 | CO1 |
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