



# PRESIDENCY UNIVERSITY

BENGALURU

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| Roll No. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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## Mid - Term Examinations - March 2026

Date: 13- 03-2026

Time: 11.45am to 01.15pm

|                             |   |                       |  |
|-----------------------------|---|-----------------------|--|
| <b>School:</b> SOIS         | <b>Program:</b> BCA                             |                       |  |
| <b>Course Code:</b> CSA3069 | <b>Course Name:</b> Data management Using Cloud |                       |  |
| <b>Semester:</b> VI         | <b>Max Marks:</b> 50                            | <b>Weightage:</b> 25% |  |

| CO - Levels | C01 | C02 | C03 | C04 | C05 |
|-------------|-----|-----|-----|-----|-----|
| 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 cloud computing.                 | 2 Marks | L1 | C01 |
| 2 | What is Platform as a Service (PaaS)?   | 2 Marks | L1 | C01 |
| 3 | Define task computing.                  | 2 Marks | L1 | C02 |
| 4 | What is Data-Intensive Computing (DIC)? | 2 Marks | L1 | C02 |
| 5 | What is Aneka?                          | 2 Marks | L1 | C02 |

## Part B

Answer the Questions.

Total Marks 40M

|           |    |  |          |    |     |
|-----------|----|--|----------|----|-----|
| 6.        | a. | Describe IaaS, PaaS, and SaaS with examples and benefits.      | 10 Marks | L2 | CO1 |
| <b>Or</b> |    |  |          |    |     |
| 7.        | a. | Explain cloud computing and its key characteristics in detail. | 10 Marks | L2 | CO1 |

|           |    |  |          |    |     |
|-----------|----|--|----------|----|-----|
| 8.        | a. | Explain the steps involved in building cloud computing environments. | 10 Marks | L3 | CO1 |
| <b>Or</b> |    |  |          |    |     |
| 9.        | a. | Explain virtualization, its types, and benefits.                     | 10 Marks | L2 | CO1 |

|           |    |   |          |    |     |
|-----------|----|---|----------|----|-----|
| 10.       | a. | Describe the architecture and working of task computing systems.      | 10 Marks | L3 | CO2 |
| <b>Or</b> |    |   |          |    |     |
| 11.       | a. | Explain MPI applications, architecture, and communication mechanisms. | 10 Marks | L2 | CO2 |

|           |    |   |          |    |     |
|-----------|----|---|----------|----|-----|
| 12.       | a. | Explain data-intensive computing architecture and characteristics | 10 Marks | L2 | CO2 |
| <b>Or</b> |    |   |          |    |     |
| 13.       | a. | Discuss technologies used for data-intensive computing.           | 10 Marks | L3 | CO2 |