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| **A red and green logo  Description automatically generated** | **St. Francis Institute of Technology**  (Engineering College)  **An Autonomous Institute, Affiliated to University of Mumbai**  NAAC A+ Accredited | CMPN, EXTC, INFT NBA Accredited | ISO 9001:2015 Certified |

**Mid Semester Examination**

Academic Year: 2024-2025

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| Department: | Year: Semester: |
| Course: | Time: |
| Date: | No. of Pages: |
| Marks: 20/15 Marks |  |

**Instructions:** Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

**Note:**

1. Attempt any two questions. Each question is of 10/7.5 marks. Attempt all sub-parts of a given question.

2. Draw neat diagrams wherever necessary.

3. Write everything in ink (no pencil) only.

4. Assume data, if missing, with justification.

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|  |  | **Marks** | **CO** | **BL** | **DL** |
| **Q 1.** | Answer the following - |  |  |  |  |
| a. |  | 5/4.5 | CO1 |  |  |
| b. |  | 5/3 | CO2 |  |  |
| **Q 2.** | Answer the following - |  |  |  |  |
| a. |  | 5/4.5 | CO2 |  |  |
| b. |  | 5/3 | CO3 |  |  |
| **Q 3.** | Answer the following - |  |  |  |  |
| a. |  | 5/4.5 | CO3 |  |  |
| b. |  | 5/3 | CO1 |  |  |