



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

InSem Examination-II Summer 2025	
Exam Seat No.:	
Academic Year: 2024-2025	Semester: VI
Class: TY	Program: B.Tech
Branch Code: ETC	Pattern: 2022
Name of Course: Industry 4.0 and Industrial IOT	Course Code: ETC223017
Max. Marks: 30	Duration: 2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 1 page.
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.

Marks CO

Question No. 1

- 1 a) What is the typical architecture of an IIoT system, and how does it enable industrial operations? (7) CO1

Question No. 2

- 2 a) Explain the main components of an IIoT ecosystem. (8) CO1

OR

- 2 b) How does IIoT improve decision-making through real-time data and analytics? (8) CO1

Question No. 3

- 3 a) What are the key factors to consider when selecting sensors for IIoT applications? (7) CO2

Question No. 4

- 4 a) What makes Z-WAVE a popular choice for smart home applications? (8) CO2

OR

- 4 b) How does OPC-UA ensure secure and standardized data exchange across multiple platforms? (8) CO2

..... End of question paper.....