

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2024

B.Tech-VIII Semester (ECE)

COURSE CODE(CREDITS):18B1WEC843 (3)

MAX. MARKS: 15

COURSE NAME: INDUSTRIAL IoT

COURSE INSTRUCTORS: MUNISH SOOD

MAX. TIME: 1 Hour

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*Note: (a) All questions are compulsory.*

*(b) Marks are indicated against each question in square brackets.*

*(c) The candidate is required to make suitable numeric assumptions wherever required for solving problems*

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Q1) What is IoT ? What are the four main components of IoT ? Explain in detail about emerging IoT applications. [4] CO-1

Q2) What are the main challenges faced by the manufacturing industry? What is a connected factory ? How is IoT providing a connected factory solution to the manufacturing industry?

[4] CO-2

Q3) With the help of a suitable diagram explain in detail about IoT reference architecture giving the function of each layer. [4] CO-2

Q4) Write short notes on the following [3] CO-1

- a) RTLS
- b) Smart connected buildings
- c) Smart creatures