

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS-2022

M.Tech IoT, 1st Semester (ECE)

COURSE CODE (CREDITS): 21M1WEC133(3)

MAX. MARKS: 25

COURSE NAME: INDUSTRIAL AUTOMATION AND IIOT

COURSE INSTRUCTORS: Dr. Rajiv Kumar

MAX. TIME: 1.5 Hours

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*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

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Q-1. a) Explain predictive type of IIoT analytics .

[CO-5, 3]

b) Explain the concepts of machine learning and data science with reference to Industry 4.0. What are the limitations of machine learning for IIoT?

[CO-5, 4]

Q-2. a) In the context of Industry 4.0, explain the application of cloud with the help of two examples.

[CO-4, 3]

b) What are the features of cloud-based device management system

[CO-4, 3]

Q-3. a) Give an architecture of fog-computing for industrial IoT

[CO-5, 3]

b) Explain the concept of fog-computing for industrial IoT with one use case

[CO-5, 3]

Q-4. What are the main requirements of data center? Also explain its important properties.

[CO-3, 3]

Q-5. What is impact of IoT on food industry? Explain its application on following different industries:

i) Food industry

ii) Consumer

iii) Healthcare

[CO-3, 3]