JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATIONS-2022

M.Tech IoT, Ist Semester (ECE)

COURSE CODE (CREDITS): 21M1WC133(3)

MAX. MARKS: 15

COURSE NAME: INDUSTRIAL AUTOMATION AND HOT

COURSE INSTRUCTORS: Dr. Rajiv Kumar

MAX. TIME: 1 Hour

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

- Q-1. a) Give an evolution of smart factory with reference to manufacturing. [CO-1], 2
- b) Explain each of the following characteristics of smart factories:
 - i) Connection
 - ii) Optimization
 - iii) Transparent
 - iv) Proactivity

[CO-1], 2

- Q-2. a)In the context of Industry 4.0, analyze the aspects of smartnessand connectivity in the growth of business. [CO-1],2
- b) In industry 4.0, information communication technology is considered as main nervous system in any manufacturing industry. Give justification. [CO-1], 2
- c) Make a comparison of fourth industrial revolution with third industrial revolution. [CO-1], 2
- Q-3. a) What are static and dynamic characteristics of sensors?

[CO-5], 1.5

b) Explain about important communication protocol for IoT applications.

[CO-5], 1.5

c) What do you mean by the term QoS with reference to IoT?

[CO-5], 2