JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATIONS-2022

B.Tech-VII Semester (CSE/IT: Minor in ECE)

COURSE CODE (CREDITS): 18B1WEC747(3)	MAX. MARKS: 25
COURSE CODE (CREDITS): 18BTWEC/47(3)	MAX. MARKS:

COURSE NAME: Internet of Things

COURSE INSTRUCTOR: Dr. Salman Raju Talluri MAX. TIME: 1 Hour 30 Min.

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

- What do you mean by service discovery for IoT. Explain the working of Bluetooth Beacons and Chip protocol.
 [4marks] [Co-3]
- 2. Write a short note on Z-wave components and terminology associated with this. Explain the working of Z-wave technology with Radio specification. [4marks] [Co-3]
- 3. Write a short note on Electronic Product Code (EPC). What are the different types of EPC tags? Specify the functionality of different tags.

 [4marks] [CO-4]
- What do you mean by protocol stack? Give three different topologies that are commonly used in IoT communication networks.
 [4 Marks]
- 5. Explain in detail about the Controller Area Network protocol with the application area. [4 Marks] [Co-2]
- 6. Define/Explain the following.

[5marks]

[Co-1 and Co-2]

- a. TDMA vs. FDMA.
- b. Radio dead spot
- c. Piezoelectric vs. thermoelectric energy harvesting.
- d. Path loss.
- e. Typical segments in a Datagram.