

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2023

B.Tech-VII Semester (for CSE- ECE Minor)

COURSE CODE (CREDITS):18B1WEC747

MAX. MARKS: 25

COURSE NAME: Internet of Things

COURSE INSTRUCTOR: SRU

MAX. TIME: 1 Hour 30 Minutes

Note: (a) All questions are compulsory.

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

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

1. What are the different types of layer present in protocol architecture of IoT? Compare these layer with that of OSI model for commonalities and differences [5m CO-1]
2. What are the parameters that are considered in choosing a low power wide area networks? What are the topologies that are being used in LPWANs? [4 m CO-2]
3. Explain in detail about the Electronic Product Code concerning RFID technology? [4m CO-2]
4. What are the disadvantages of LPWANs? What are the features of Bluetooth Low Energy technical specification? Give at least four specifications. [4m CO-3]
5. What is the technology that is based on brief melodic tweedles to make communication between two devices? With neat waveforms, explain the working of this. [4m CO-3]
6. Define the following [4m CO-1]
 - a. DODAG
 - b. Radio Dead Spot
 - c. Cluster Tree topology
 - d. Handshaking protocol