JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-VIII Semester (BT)

COURSE CODE (CREDITS): 25B1WCI835 (3) MAX. MARKS: 15

COURSE NAME: FOG COMPUTING IN IOT

COURSE INSTRUCTOR: AAYUSH SHARMA MAX. TIME: 1 Hour

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

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

(c) ***Use of calculators is not allowed***

Q.No	Question	CO	Marks
Q1	**(a)** What is the Internet of Things (IoT)? Write **two key characteristics** of IoT systems. **(b)** Draw or describe the **basic IoT architecture** and briefly explain the role of **any two layers**.	**[CO1]**	**[2+3]**
Q2	**(a)** What is a **Wireless Sensor Network (WSN)**? **(b)** List **any three components** of a typical WSN node. **OR** **(b)** Write **any three applications** of WSN in IoT systems.	**[CO1]** **[CO2]**	**[2+3]**
Q3	**(a)** What is **Cloud Computing** in the context of IoT? Mention **any two benefits** of using cloud computing for IoT applications. **(b)** What is **Fog Computing**? Write **one reason** why fog computing is preferred over cloud computing in some IoT applications.	**[CO2]**	**[3+2]**

JUIT TEST-1 EXAMINATION- FEB-2026

105