# School of Computing Science and Engineering

**Department of Computing Science and Engineering**
**Mid Term Examination**

**Exam Date: 29 Sep 2023**
**Time : 90 Minutes**
**Marks : 50**

**Sem VII - CSIO4701 - Privacy and Security in IoT**

*Your answer should be specific to the question asked*
*Draw neat labeled diagrams wherever necessary*

| | | | |
|---|---|---|---|
| **1)** | Summarize the key components of a cryptographic security framework for IoT systems | K2 | (2) |
| **2)** | What is the role of authentication and authorization mechanisms for smart devices in the IoT? | K1 | (3) |
| **3)** | What are the security concerns in IoT applications? | K2 | (4) |
| **4)** | Discuss security requirements in IoT architecture, focusing on enabling technologies and their significance. | K2 | (6) |
| **5)** | Discuss the use of digital signatures in ensuring data integrity and authenticity in IoT communication. | K3 | (6) |
| **6)** | Compare and contrast different types of IoT attacks, their methodologies, and countermeasures. | K3 | (9) |
| **7)** | Discuss the role of transport encryption in securing IoT data communication against various attacks. | K4 | (8) |
| **8)** | Develop a detailed plan to address authentication and authorization challenges for diverse IoT smart devices. | K4 | (12) |

**OR**

| | | | |
|---|---|---|---|
| | Design an attack-resilient security architecture for IoT, incorporating measures to protect against specific threats. | K4 | (12) |