Assignment 1 Basic Knowledge

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Format: Name the document in the combination of name、ID, and No. of Assignment.

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**Email the document to “pingy@wxit.edu.cn” before September 21st.**

**1. RFID系统的基本组成是什么？简述RFID系统分类的方法。**

**I:**

**What are the basic components of an RFID system?**

**Answer:**

**RFID system consists of three parts: tag reader and antenna.**

**II:**

**Describe the classification methods of RFID systems**

**Answer1:**

**According to the use of frequency classification, according to the use of frequency, can be divided into:**

1. **low frequency（kHz）**
2. **high frequency(13.56MHz)**
3. **Ultra high frequency(100MHz 44MHz)**

**Answer2:**

**Electronic labels are classified into active system and passive system according to whether or not batteries supply power to electronic labels.**

**2.RFID读写器的基本组成和功能是什么？有哪些常用的结构形式？**

**I:**

**What is the basic composition and function of RFID reader?**

**Answer1:**

**The basic composition of：**

1. **The RFID antenna**
2. **RFID reader RADIO frequency interface module**
3. **Reader logic control module**

**Answer2:**

**The basic function:**

1. **Realize communication with**
2. **Power the label**
3. **Realize communication with computer network**
4. **Realize multi-label identification**
5. **Implement error message prompt**

**II:**

**What are the common structural forms?**

**Answer:**

**Common forms of RFID readers are divided into handheld and stationary**

1. **Handheld RFID reader is sensitive and portable.**
2. **The fixed RFID reader has certain advantages in reading distance and reading range.**