



**Khalifa University of Science, Technology and Research**

**Electronic Engineering Department**

**ELCE333: Microprocessor Systems Laboratory**

**Laboratory Experiment No. 5**

**Serial Communication Interface**

**Lab Partners**

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## **Pre-Lab Questions:**

### **1. What is meant by Baud Rate and in what unit is it measured?**

Baud is the unit for symbol rate or modulation rate in symbols per second or pulses per second. It is the number of distinct symbol changes (signaling events) made to the transmission medium per second in a digitally modulated signal or a line code measured in bauds/second (bps).

### **2. Which jumper has to be moved in order for SCI1 to function?**

Jumper has to be moved Port S.

### **3. The HCS12 TxD and RxD signals \_\_\_\_\_ (are, are not) TTL-compatible.**

Are

### **4. In this lab, what is the role of the MAX233 (MAX232) chip?**

MAX233 chips are used to enable flow control and high baud rates.

### **5. What is the role of TDRE and RDRF? State to which register they belong to.**

TDRE stands for Transmit Data Register Empty. TDR is an 8 bit register that stores data for transmission. RDRF stands for Receive Data Register Full. RDRF is an 8 bit to transmit the saved data.