Question: How do you detect the start of a new byte?

* When RX signal goes low indicating a “START” bit.

Question: Why is it important to sample the incoming signal in the middle of the bit period?

* Sampling the incoming signal in the middle of the bit period allows receiver to tolerate slight variations in the baud rate of the transmitter.

Question: What can happen if the baud rate of the transmitter does not match the baud rate of the receiver?

* Receiver will read wrong values from the transmitter. It might skip some values that should have been read or it might read same values twice.

Question: What are the maximum and minimum transmitter baud rates that can be tolerated by the receiver expecting a 19,200 baud rate?

* Minimum 18189, Maximum 20210