Name: Id#

COE 306, Term 171

Introduction to Embedded Systems Quiz# 4

Date: Tuesday, Dec. 18, 2017

(1)	The advantage of serial transmission in comparison to parallel transmission is that it is
(2)	The advantage of using differential signals in serial transmission is that the signal to noise ratio.
(3)	In transmission, data flow is only in one direction while transmission, data flow is in both directions simultaneously.
(4)	Given 9600 baud rate and 8 voltage levels used for transmitting each symbol, the rate is
(5)	Given a protocol with 3 bits of protocol (start, stop and parity), 7 bits of data, 9 baud rate, and 1 bit per symbol (binary), the information rate

a –	and a stop condition is indicated by								
(9) Iı —	n	UART,	a	framing	error	occurs	when 		
(10)	In	UART,	an	overrun	error	occurs	when 		

- **Q2.** It is required to interface a microcontroller as a master to three peripheral devices as slaves.
 - a. Show the block diagram interconnection of the master and slaves using SPI interface.

b. Show the block diagram interconnection of the master and slaves using I^2C interface.