Incorrect

Quiz on ADC and UART

Due No due date **Points** 15 **Available** until Mar 22 at 3:30pm

Questions 11
Time Limit 15 Minutes

Instructions

Choose the letter of the correct answer, match the items or select true or false.

This quiz was locked Mar 22 at 3:30pm.

Attempt History

	Attempt	Tillie	00016	
LATEST	Attempt 1	15 minutes	5 out of 15 *	

^{*} Some questions not yet graded

(!) Correct answers are hidden.

Score for this quiz: **5** out of 15 * Submitted Mar 22 at 3:19pm This attempt took 15 minutes.

Question 1	1 / 1 pts
When the receiver could not detect the stop bit of th frame, which of the following will occur?	ne incoming data
Frame Error	
Parity Error	
Connection Error	
Overrun Error	

https://usc.instructure.com/courses/17083/quizzes/120269?module_item_id=762765

3/30/22, 4:20 PM Quiz on ADC and UART: Group 1 CPE 3201 - EMBEDDED SYSTEMS

What is baud rate?

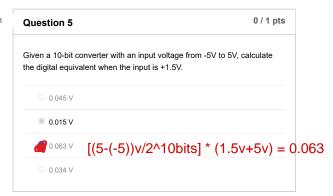
It is the unit of the number of symbol per second.

It is the unit of the number of packets per second.

It is the unit of the number of pulses per second.

It is the unit of the number bits transmitted in one second.

Incorrect



Question 6	1 / 1 pts
A stop bit in a UART frame is:	
switches between low to high	
always high	
always low	

0 / 1 pts
ICU holds the digital
,

Question 3		1 / 1 pts
Which of the f	ollowing best describes UART?	
	at takes bytes of data and transmits the i fashion and reassembles the data on the	
O A hardv	ware system that transmits bytes in paral	llel in a single clock.
A serial	communication protocol which requires	only one data line.
A susta	m that allows data to be transmitted serie	ally through a bus.

Incorrect	Question 4	0 / 1 pts

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switches between high to low

Question 7	1 / 1 pts
Which of the following is not part of the UART frame?	
O Parity bit	
O Start bit	
Stop bit	
Acknowledge bit	

ncorrect	Question 8	0 / 1 pts
	In the RS-232 standard, logic-1 is presented by which voltage	level?
	-1 -3V	
	◎ 0 V	
	○ +5V	
	○ +3V	

Incorrect	Question 9	0 / 1 pts

3/30/22, 4:20 PM

Which of the following A/D conversion methods uses a D/A converter and a comparator.

Flash

Counter

Successive Approximation

Integrating

Question 10	1 / 1 pts
Given a 4-bit A/D converter with a reference voltage following is its step voltage?	of 12V which of the
0 1.2 V/step	
0.5 V/step	
© 0.75 V/step	
○ 1.0 V/step	

Question 11	Not yet graded / 5 pts
A temperature sensor can meas	sure from -100 degrees Celsius to +100
degrees Celsius and is connecte	ed to a 10-bit A/D converter. At -100
degrees Celsius, the voltage of	the sensor is 0 V and at +100 degrees
Celsius the voltage is 12V. What	t is the temperature measured by the

reference voltage is 10 V. Show your solution and type the answer in bold face.

Your Answer:
-100 to 100 = 200 + 1 (0 value)

201 / 1023 = x / 350
= 68.77
= 68.77 - 100 = -32.23 degrees celsius

Quiz Score: 5 out of 15