Question 1					
Not yet answered					
Marked out of 1.00					
An Analog to Digital Converter uses a reference voltage of 8V and a resolution of 12 bits. What is the step size ?	Time left 0:11:52				
□ A. 8 / 12					
☑ B. 8 / 2 ¹²					
\Box C. $2^{12}/8$					
□ D. 12/8					
Question 2					
Not yet answered Marked out of 1.00					
Select the best answer. When choosing an Analog to Digital Converter unit for your project, you should consider					
O A. Bandwidth					
O B. Conversion Time					
© C. All of the above					
O. Resolution					
Clear my choice					
Question 3					
Not yet answered					
Marked out of 1.00					
What is the main purpose of the AREF pin in ATmega328p?					
☐ A. Provide a reference voltage of 1.1V					
☑ B. Configure the resolution of the ADC unit					
☐ C. Block any interference that the outside environment can have on the conversion process					
☑ D. Provide a reference voltage of your choice					

Question 4				
Not yet answered				
Marked out of 1.00				
You need to convert an analog signal to a digital signal. You also need the converted digital signal to resemble the original analog signal as closely as possible. Which of the following should you do?				
☐ A. Choose the largest step size possible for the ADC process				
\square B. Choose a conversion frequency higher than what is recommended by the manufacturer				
\Box C. Have a V_{ref} value that is smaller than the maximum possible value of the analog input signal				
✓ D. Choose the smallest step size possible for the ADC process				
Question 5 Not yet answered				
Marked out of 1.00				
In Analog to Digital Conversion, what is meant by acquisition time ?				
☐ A. Another term for "conversion time"				
☑ B. Time for the converter to properly capture the input voltage level present at the channel				
☐ C. Total time for the ADC process to finish				
☐ D. All of the above				
,				
Question 6 Not yet answered				
Marked out of 1.00				
What is the type of Analog to Digital Conversion used in ATmega328p?				
☐ A. Flash				
☑ B. Successive approximation				
☐ C. Sigma-Delta conversion				
☐ D. Direct conversion				

Question	7
Not yet ar	nswered
Marked o	ut of 1.00
ADC c	onversion involves
Select	one:
O A	. None of the above
○ B.	. simulation
	. Quantization
O D	. subtraction
○ E.	summation
С	lear my choice
Question	0
Question Not yet ar	
Marked o	
ADC ir	nput is sampled by
Select	one:
O A	. None of the above
B.	. Nyquist rate
O C.	. Lens rate
O D	. Ohms rate
○ E.	Newton rate
С	lear my choice
Question	0
Not yet ar	
Marked o	
A mea	surement of the maximum speed at which the DACs circuitry can operate and still produce the correct output is called
Select	one:
	. maximum summation rate
О В.	
O C.	
	. maximum sampling rate
○ E.	
С	lear my choice

Pulse width modulator is a type of				
Select one:				
0	A.	None of the above		
	B.	DAC		
\circ	C.	AAC		
\circ	D.	DDC		
0	E.	ADC		

Clear my choice

Question 10

Not yet answered

Marked out of 1.00