I006+ H012 Online Test

Ref502

Wheatstone bridge is _____basic signal conditioner.

A	Active	B	Passive
C		D	
	Answer		

Ref503
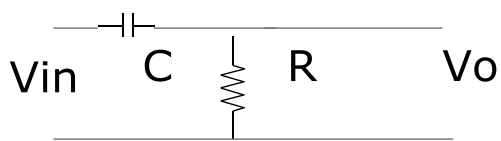
This circuit is

A	Low pass filter	B	High pass filter
C	Band pass filter	D	Band stop filter
	Answer		

Ref506

The equation F1/A1 = F2/A2 belongs to

A	Boyle's law	B	Charle's law
C	Bernaulli's law	D	Pascal's law
	Answer		

Ref509

4 bits ripple counter has a modulus of _____ outputs.

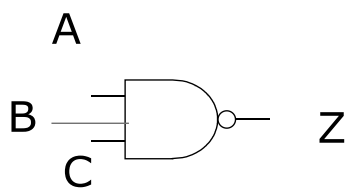| A	4	B	8
C	12	D	16
	Answer		

Ref512

To interface with high noise immunity industrial control system, which of device is to be used?

A	TTL	B	DTL
C	HTL	D	ECL
	Answer		

Ref515

A	Z = A B C	B	Z = A+B +C
C	$\overline{Z= A B C}$	D	
	Answer		

Ref518

1101- 0110 =

A	0111	B	0101
C	0110	D	0100
	Answer		

Ref521

In SR flipflop, when the signal presence at S, not presence at R, Q is 1 and $\overline{Q}$ is 0 result

A	No change	B	Set
C	Reset	D	Invalid
	Answer		

Ref524

A shift register, moving data to left is

A	Divider	B	Multiplier
C	Multiplexer	D	De-multiplexer
	Answer		

Ref527

What is the output voltage of A   10 bit ADC with 10 V reference . If input is (a) 0010110101 (b) 20FH

A	1.762528 V, 5.14 V	B	3.47288 V, 10.283 V
C	5.22789 V, 20.261 V	D	
	Answer		

Ref530

The input to a 10 bit ADC with a 2.5V reference is 1.45V. What is the HEX output?. Suppose that the output was found to be 1B4H. What is the output voltage?

A	Vin = 1.06445 V	B	Vin = 1.12282 V
C	Vin = 2.22412 V	D	Vin = 3.22162 V
	Answer		

Ref533

Dual slope ADC   R = 100KΩ, C= 0.01μF Vref= 1V. Conversion time = 10 ms. Find the conversion time for 6.8 V input

A	6.8 ms	B	6.8 sec
C	6.8μS	D	68 ms
	Answer		

Ref536

Thermistor is

A	Temperature dependent resistor	B	Resistance temperature detector
C		D	
	Answer		

Ref539

Proportional mode

A	Stabilizes the process	B	Resets the process
C	Compensates time lag in control loop	D	
	Answer		