

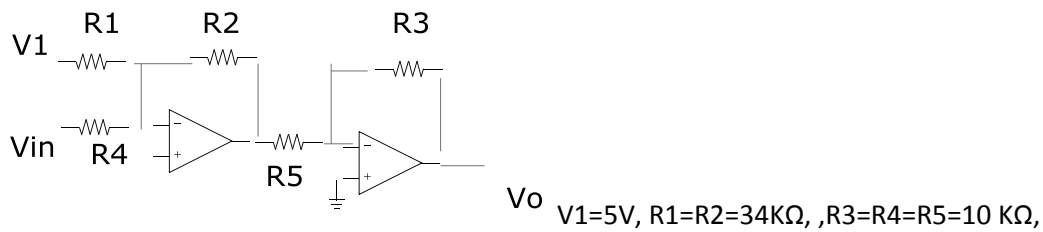
I006+ H012 Online Test

Ref501

_____ provides the operation necessary to transform the sensor output into a form necessary to interface with other elements of process control loop.

A	Analogue signal conditioning	B	Digital signal conditioning
C		D	
Answer			

Ref504



Vout for above circuit is

A	$V_{out} = 1.7 V_{in} + 5$	B	$V_{out} = 3.4 V_{in}$
C	$V_{out} = 1.7 V_{in}$	D	$V_{out} = 3.4 V_{in} + 5$
Answer			

Ref507

TTL 74LS 193 A CMOS 4035 ICs are used for

A	Parallel in / Parallel out function	B	Serial in / Parallel out function
C	Parallel in / Serial out function	D	Serial in / Serial out function
Answer			

Ref510

The number of data signal lines required for 7 segments display is

A	7	B	8
C	9	D	10
Answer			

Ref513

Events occur after the previous event is completed. The device is_____.

A	Combinational logic	B	Sequential logic
C	Synchronous logic	D	Asynchronous logic
Answer			

Ref516

$45_{10} =$

A	101101_2	B	100101_2
C	111001_2	D	101010_2
Answer			

Ref519

The device in which only one input at a time is activated to produce specific code at output is

A	Decoder	B	Encoder
C	Multiplexer	D	Demultiplexer
Answer			

Ref522

Latch can store

A	Only one bit of information	B	A number of bits at one time
C		D	
Answer			

Ref525

Decimal equivalence of 47H is

A	71	B	781
C	29	D	112
Answer			

Ref528

Temperature is measured by a sensor with output $0.02 \text{ V/}^\circ\text{C}$. Determine ADC Reference & word size to measure 0 to 100°C resolution.

A	0.039V/ step	B	0.078V/ step
C	0.156V/ step	D	0.312V/ step
Answer			

Ref531

What is the HEX output of a bipolar 12 bit ADC with a 5 V reference for input -0.85V

A	54H	B	108H
C	27H	D	39H
Answer			

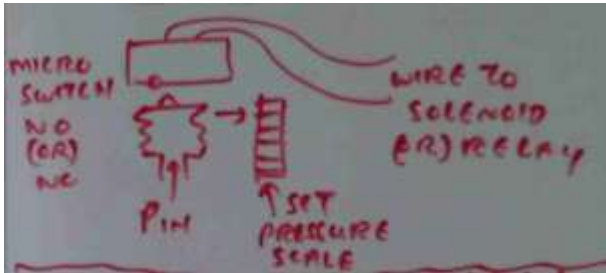
Ref534

ADC has been developed to interface with microprocessor. Data from ADC is placed on _____.
When appropriate command is issued.

A	Address bus	B	Data bus
C	Control bus	D	
Answer			

Ref537

The following is called_____.



A	Bellow operated on-off controller	B	On-off pressure control loop
C	Pneumatic force balance proportional controller	D	
Answer			

Ref540

Derivative mode

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

