BE Lab Test [Section 2]

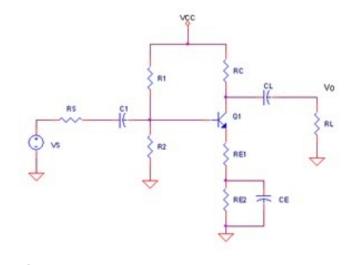
rishiraj45035@gmail.com Switch accounts



A diode can act as

- Amplifier
- Latch
- Filter
- Switch

In the circuit below, what is the most likely scenario:



- RE2>>RE1, ZCE≈0
- RE1>>RE2, ZCE≈∞
- RE1>>RE2, ZCE≈0
- RE2>>RE1, ZCE≈∞

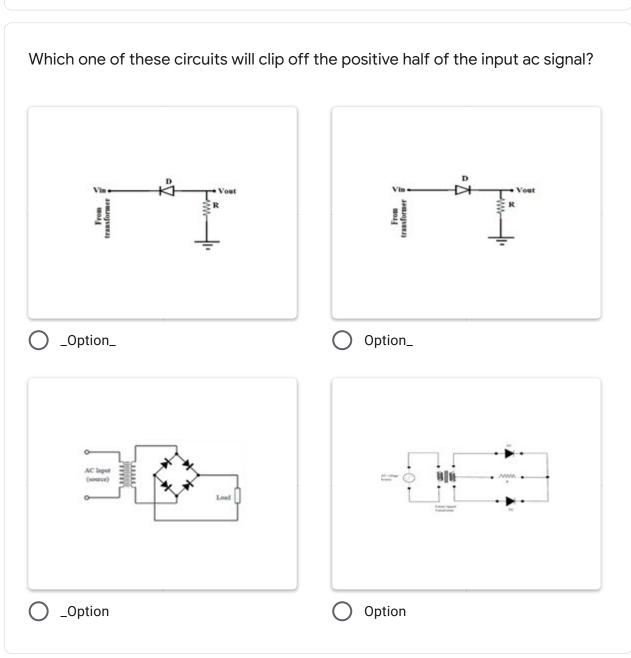
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Two 50 mH inductors are connected in parallel with each other. What will their combined inductance be in Henrys?
○ 50 mH
○ 100 mH
O 200 mH
O 25 mH
Which of the following relates to a Ohmic device
None of the other 3 options
Its resistance is constant
Current through it is proportional to its resistance
Voltage across it is inversely proportional to the current through it
How does a capacitor behave at steady state when a DC voltage is applied across it?
Charged and Short Circuit
Uncharged and Short Circuit
Uncharged and Open Circuit
Charged and Open Circuit

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The maximum output voltage of a certain low-pass filter is 15 V. The output voltage at the 3dB cut-off frequency is
O 10.1 V
○ 15 V
○ 5.6 V
O 10.6V
In a four band resistor, we have white, blue, red and golden band. What is the maximum resistance value?
O 108 Ohm
O 10.08 KOhm
960 Ohm
9.6 KOhm
An npn BJT is said to be operating in the saturation region, if
Both BE and BC junctions are reversed biased
BE junction is reverse biased and BC junction in forward biased
Both BE and BC junctions are forward biased
BE junction is forward biased and BC junction in reverse biased

If ground is applied to the (+) terminal of an inverting Op-amp circuit, the (-) terminal will
be virtual ground
onot invert the signal
onot need an input resistor
have high reverse current



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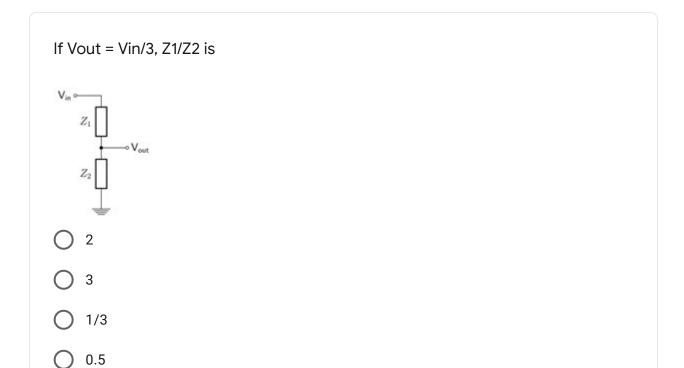
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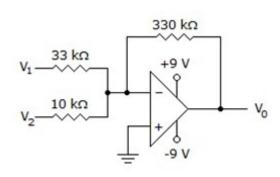
Chip number for two-input OR gate is
7404
7432
7486
7408
What is the percentage of tolerance if there is no fourth (tolerance) band on a resistor element?
O 2%
O 10%
20%
O 5%
Pick the option listing only universal gates.
NOT and NOR
OR and AND
NAND and OR
NAND and NOR

To design 1x4 DeMUX, we need
Three-input OR gates and single-input NOT gates
Two-input AND gates and three-input OR gates
Three-input AND gates and two-inputs OR gates
Three-input AND gates and single-input NOT gates
To design a NOR Gate SR latch, you need to use
7402
7400
7404
7432
What is the output Z of the following circuit?
$A \longrightarrow B$
C
O 0
○ ABC
○ ABC

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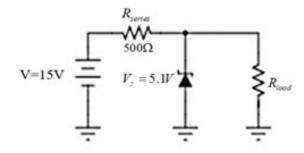
Calculate the output voltage if V1= V2= 0.15 V.



- -9V
- 4.65 V
- 6.45 V
- + 4.65 V

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Calculate the current through the Zener diode with a load resistance of 910Ω :



- 13.8 mA
- 14.2 mA
- 12.4 mA
- 15.2 mA

Polar capacitors can be easily identified

- By their legs
- By their prices
- By their sizes
- By their colors

What does a rectifier do?

- Converts a zero-mean ac signal to a non-zero mean ac signal
- Converts a zero mean ac signal to a dc signal
- Onverts a ac signal of high amplitude to a ac signal of lower amplitude
- Converts a dc signal of high amplitude to a dc signal of lower amplitude

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A magnitude comparator is defined as a digital comparator which has
Two output terminals
Three output terminals
Only one output terminal
No output terminal
Which of the following statement is NOT true?
For a center-tapped transformer, the tapping is done on the secondary coil.
Bridge rectifier requires more number of diodes than centre-tapped full wave rectifier
We require more expensive diodes to design bridge rectifier compared to centre-tapped full wave rectifier
Bridge rectifier has better TUF (transformer Utilization Factor) than centre-tapped full wave rectifier
For Chip no. 7408, the pin number for applying +VCC is
O 7
O 1
O 16
O 14

The Op-amp can amplify
Only AC Signal
Neither AC nor DC signal.
Both AC and DC signals
Only DC Signal
In a multiplexer, if there are 6 inputs, how many select lines do you need?
O 6
O 4
O 2
○ 3
In the circuit below with cut off frequency 100KHz, if R = 400 ohms what is C?
$V_{in} \circ \bigcap_{R}^{C} V_{out}$
20uF

4pF

4nF

None of the options

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Minimum number of diodes required for realizing a full wave rectifier is	3			
O 4				
O 3				
O 2				
O 1				
An electronic device with component number 1N5408 is a				
Zener Diode				
O Silicon Diode				
Germanium Diose				
O Varactor Diode				
In CE amplifier, bypass capacitor is				
onnected in series with the emitter resistor				
onot necessary as the resistor will have very high value				
onnected both in series and parallel with emitter resistor				
onnected in parallel with the emitter resistor				
A copy of your responses will be emailed to the address that you provided.				
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