LIC ESE MAY 2021 OBJECTIVE

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Objectiv	ve Qu	estions

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For a Wein Bridge oscillator, the RC networks in the feedback circuit have values of their resistances $R = 3.3 \text{ k}\Omega$ and capacitances $C = 0.047 \mu\text{F}$,

- Its frequency of oscillation is ≈ 1 kHz
- Its frequency of oscillation is ≈ 3.030 kHz
- O Its frequency of oscillation is ≈ 3.3 kHz
- O Its frequency of oscillation is ≈ 480 Hz

*

For a Phase Locked Loop which of the following is true?

- Lock in range > Capture range
- Lock in range < Capture range
- Lock in range = Capture range
- Lock in range = half of Capture range

A square waveform having ON time greater than its OFF time is fed as input to an integrator. The resulting output of the integrator is called	
Triangular waveform	
Sawtooth waveform	
Inverted Square waveform	
Sine waveform	
Clear selection	
*	
For High voltage, High current voltage regulator using IC 723, output voltage and output currents respectively have one of the following correct values.	
Less than 7 V, greater than 150 mA	
Less than 7 V, less than 150 mA	
7 to 37 V, greater than 150 mA	
7 to 37 V, less than 150 mA	
An ideal op-amp requires infinite bandwidth because	
Signals can be amplified without attenuation	
Output common-mode noise voltage is zero	
Output voltage occurs simultaneously with input voltage changes	
Output can drive infinite number of devices	
Clear selection	

An Inverting Schmitt trigger employs Only Negative feedback Only Positive feedback
Both Negative and Positive feedback
No feedback
Clear selection
A current to voltage converter converts
Input current to proportional output voltage.
Input current to proportional output current.
Input voltage to proportional output voltage.
Input voltage to proportional output current.
Clear selection
*
The reference voltage of upper comparator used in functional block diagram of IC 555 is
O 1/3 VCC
2/3 VCC
O 2/5 VCC

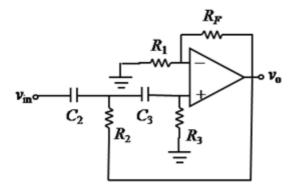
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An integrator circuit

- uses a resistor in its feedback circuit.
- uses an inductor in its feedback circuit.
- uses a capacitor in its feedback circuit.
- uses a diode in its feedback circuit.

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The filter shown below has $R_1=27$ k Ω , $R_F=15.8$ k Ω , $R_2=R_3=33$ k Ω , $C_2=C_3=0.0047$ μF is a



- High Pass filter with cut off frequency ≈ 1 kHz
- High Pass filter with cut off frequency ≈ 10 kHz
- O Low Pass filter with cut off frequency ≈ 1 kHz
- O Low Pass filter with cut off frequency ≈ 10 kHz

The output pulse width of a monostable multivibrator using 555 where R and C are the external components is		
0	RC	
•	1.1 RC	
0	(2/3) RC	
0	(1/3) RC	
	Clear selection	
*		
	an Astable multivibrator if R_A =25K Ω , R_B =33k Ω , C=0.5 μ F, calculate scharging time of capacitor waveform	
•	11.43 ms	
0	20 ms	
0	12.5 ms	
0	10 ms	
*		
Wh	nich of these circuits clips one half cycle of a sinusoidal waveform?	
0	Comparator	
0	Schmitt Trigger	
•	Half Wave Precision Rectifier	
\bigcirc	Peak detector	

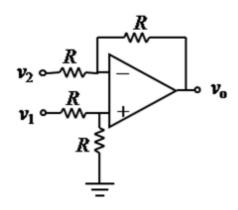
In an inverting amplifier using op-amp		
The input is connected to the non-inverting terminal via resistor and inverting terminal is kept floating		
The input is connected to the non-inverting terminal via resistor and inverting terminal is grounded The input is connected to the inverting terminal via resistor and non-inverting terminal is kept floating The input is connected to the inverting terminal via resistor and non-inverting terminal is grounded		
		Clear selection
For a non inverting comparator, input signal and reference voltage are given to		
inverting terminal of the op-amp through separate resistors		
onn-inverting terminal of the op-amp through separate resistors		
inverting terminal and non-inverting terminal of the op-amp respectively		
onn-inverting terminal and inverting terminal of the op-amp respectively		
Clear selection		
*		
Output voltage of LM317 can be adjusted from		
-1.2 V to 37 V		
○ -1.2 V to -37 V		
● 1.2 V to 37 V		
1.2 V to -37 V		

*

In IC7805 the output voltage is

- 5 V
- O V
- (8 V
- 7 V

For the difference amplifier shown below, the output voltage is given by



- \bigcirc vo = v1 + v2
- vo = v1 v2
- vo = -v1 + v2
- \circ vo = (v1 + v2)

Clear selection

Which one of these ICs is a Voltage Controlled Oscillator?

IC 565

IC 566

IC 555

IC 723

The instrumentation amplifier shown in diagram has $R_1=R_F=25~k\Omega$, $R_2=10~k\Omega$, and R_3 varying from $100~\Omega$ to $1~k\Omega$, the voltage gain of the amplifier varies from v_2 v_1 10~to 100 2 to 201 1 to 101 2 to 202

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