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Topics	Number of times appeared in last 5 exams	
parameters of OP-AMP	7	
4 specification of LM 324	5	
instrumentation amplifier & its application	5	
advantages of active filter over passive filter	4	
block diagram OP-AMP	4	
difference between open loop and closed loop configuration of OP-AMP	4	
first order high pass filter	4	
realize the equation using OP-AMP, $V_0=3V_1+2V_2$	3	
first order high pass filter (numerical)	1	
astable multivibrator using IC 555	3	
astable multivibrator using IC 555 (numerical )	1	
block diagram of PLL	3	
sample and hold circuit using OP-AMP	3	
LOG amplifier using OP-AMP	3	
OP-AMP as inverting amplifier(derivation)	3	
OP-AMP as inverting amplifier (numerical)	1	
OP-AMP as schmitt trigger	3	
OP-AMP as schmitt trigger (numerical)	2	
phase shift oscillator using OP-AMP	3	
<b>derivation of voltage to current converter</b>	floating load type	3
	grounded load type	2
wien bridge oscillator using IC 741	2	
virtual ground and virtual short	2	
OP-AMP as integrator (derivation)/ square wave to spike wave converter	2	
numerical on first order Low Pass Filter	2	
OP-AMP as non- inverting amplifier (derivation)	2	
OP-AMP as non- inverting amplifier (numerical)	2	
PLL as frequency multiplier	2	
antilog amplifier	2	
OP-AMP as buffer/ voltage follower	2	
OP-AMP as differentiator	2	
second order low pass filter	2	
define cutoff frequency, Q-factor and passband, rolloff rate	2	
offset null in OP-AMP	2	
roll of rate and order of filter	1	
function of pins of IC 555	1	

## V2V EdTech LLP | LIC (CO/IT/AIML) (22423) | ALL Board Questions

feature of IC 555	1
difference between comparator and schmitt trigger	1
IC 555 as voltage controlled oscillator (VCO)	1
active wide band reject filter	1
open loop differential amplifier	1
lock range and capture range of PLL	1
classification of filter based on frequency response	1
monostable multivibrator using IC 555	1
monostable multivibrator using IC 555 (numerical)	1
window detector	1
band pass filter using OP-AMP	1
band pass filter using OP-AMP (numerical)	1
first order low pass filter (numerical)	1
pin diagram of IC 565	1
second order high pass filter	1
second order high pass filter (numerical)	1
OP-AMP as non-inverting adder	1
OP-AMP as inverting adder	1
OP-AMP as subtractor (numerical)	1
bistable multivibrator using IC 555	1
stop band filter using OP-AMP	1