

VIVA QUESTIONS

1. What are the ideal characteristics of an op-amp.
2. What is CMRR. What is its significance.
3. What is slew rate and what causes it.
4. Write the relationship between slew rate and maximum frequency of input signal that can be applied to produce output without distortion.
5. Why input impedance of op-amp is very high.
6. What μA in μA 741 and LM in LM 324 indicates.
7. Define unity gain frequency and its typical value.
8. What is the physical significance of an input offset current of 20 nA.
9. What is the need for a high value resistance across the capacitor in integrator.
10. What are the merits of op-amp integrator compared to passive RC integrator.
11. Why op-amp integrator output is linear.
12. Explain half power frequencies.
13. What is hysteresis.
14. Explain Barkhausen criteria for an oscillator.
15. Differentiate between Difference amplifier and instrumentation amplifier.
16. What is the roll-off rate of a second order LPF.
17. What are the applications of 555 timer IC.
18. What is the resolution of 8-bit ADC.
19. What are the different types of ADCs.
20. What is the value of the compensation capacitor used in op-amp μA 741

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