

LICA Assignment Questions

- ① Explain the working of RC phase shift oscillator with the help of circuit diagram and also derive frequency of oscillation for ~~RC~~ RC phase shift oscillator.
- ② Derive frequency of oscillations of Wien bridge oscillator and explain its working.
- ③ working of square wave, triangular waveform generators.
- ④ Explain the block diagram of phase locked loop.
- ⑤ Derive pulse width of monostable multivibrator using 555 timer and explaining its working.
- ⑥ Derive expression for ~~freq~~ time period of Astable multivibrator using 555 timer and explaining its working.

- ⑦ Explain pulse width modulation, missing pulse detector, frequency divider using 555 timer.
- ⑧ Discuss the applications of Astable multivibrator.
- ⑨ Discuss different specifications of DAC and ADC converter.
- ⑩ Derive output ~~and~~ voltage expression for R-2R ladder DAC and explain its operation.
- ⑪ Explain the working of Dual Slope ADC, Successive approximate register and flash converter.