

- Q.1.a. What is an oscillator? Give its types? Explain the concept of feedback oscillators.
- b. What is meant by RC feedback oscillators? Explain working of Wien bridge oscillator.
- c. How phase shift oscillator and twin T oscillators are different from Wien bridge oscillator?
- Q.2.a. Explain the working of Colpitts oscillator.
- b. Draw the circuit diagrams of the Clapp, Hartley and Armstrong oscillators.
- Q.3.a. Explain the working of a UJT Relaxation oscillator
- b. Draw the circuit diagrams for triangular, square and sawtooth oscillators
- Q.4.a. Explain pins of a 555 timer IC and give its application
- b. How a 555 timer IC can be used as Astable multivibrators.
- c. Explain working of 555 timer IC as voltage controlled oscillator.
- Q.5.a. What is meant by EMI. What are its types and disadvantages?
- . What are the sources of EMI and how it can be minimized?