

**EC 8452 Electronic Circuits-II**

**Important 13mark questions**

**Unit I**

1. Discuss the effects of negative feedback on the properties of amplifiers in detail with relevant analytical expressions.
2. Discuss in detail about the impact of feedback on the amplifier with single and two poles.

**Unit II**

1. With a neat diagram, explain the operation of the Wien-bridge oscillator. Also derive the expression for the frequency of oscillation.
2. Discuss the principle of oscillation in crystals and draw the equivalent circuit, impedance frequency graph of crystals and give expression for its series and parallel frequencies.

**Unit III**

1. Explain how flat band response is achieved in stagger tuned amplifier?
2. Discuss on the effect of cascading single and double tuned amplifier on bandwidth.

**Unit IV**

1. With circuit diagram, waveforms and relevant expressions explain the operation of (i) Attenuator and (ii) RC integrator.
2. Explain with circuit diagram, waveforms and relevant expressions the operations of UJT oscillator.

**Unit V**

1. Explain the different classes of power amplifiers and compare them.
2. With neat circuit diagram explain monostable blocking oscillator with base and emitter timing. Draw necessary waveforms.