1. What is velocity modulation? Explain how amplification takes place in a Two cavity klystron

Amplifier with necessary equations

2.In a two cavity klystron amplifier the parameters are the input power : 10 mW, Voltage gain : 20 dB, Shunt resistance of input cavity : 25 KΩ , Output shunt resistance : 35 KΩ, load resistance : 40KΩ. Find the input voltage and power to the load.

3.Explain in detail about the RWH theory of Gunn diode?

4.Illustrate the operation of a IMPATT Diode.

5. Write about the measurement of impedance using Microwave bench setup.

6.Explain the measurement of Impedance using Microwave bench setup

1. Explain the principle of operation of a reflex Klystron oscillator and derive an expression for the bunching parameter.

2. Derive an expression for the Hull cut off condition for cylindrical magnetron oscillator.

3. Illustrate the operation of a Gunn Diode.

4. Justify the operation of a TRAPATT Diode.

5. Explain the measurement of power using Microwave bench setup

6. Explain the measurement of VSWR using Microwave bench setup