

MODEL QUESTION PAPER
Seventh Semester B.Tech Degree Examination
(2008 scheme)
08-703: MICROWAVE ENGINEERING (T)

Time:3 Hours

Max.Marks:100

PART A**(Answer all questions. Each question carries 4 marks)**

1. What do you mean by a Cavity Resonator?
2. Explain the difference between velocity modulation and current modulation.
3. Explain the importance of using slow wave structures in TWT.
4. What is π mode of oscillation in magnetron.
5. Explain the physical structure of heterojunction bipolar transistor.
6. Explain the importance of rising sun structure in magnetron.
7. Write brief notes on Gunn Oscillation modes.
8. What do mean scattering parameters? List the important properties of scattering matrix.
9. Explain the working of a four port circulator.
10. Explain how impedance measurement is done at microwave frequencies.

(4 x 10 = 40)**PART-B****Answer any two question from each module Each question carries 10 marks****MODULE - I**

11. With the help of neat diagrams explain the principle of operation of a 2 cavity klystron. Derive expressions for its bunching parameter.
12. Explain the principle of operation of a Reflex Klystron. Derive expressions for its power output and efficiency.
13. With the help of neat diagrams explain the working of TWT. What are its advantageous features?

MODULE - II

14. Explain the construction of a cavity magnetron. Derive expression for Hull cutoff voltage.
15. Explain the voltage- frequency, current-frequency and power frequency limitations of microwave transistors.
16. With the help of neat diagrams explain the principle of operation of tunnel diode.

MODULE -III

17. What do you mean by a directional coupler? Explain the operation of a two hole directional coupler and derive its Scattering Matrix.
18. Explain how power and frequency measurement is done at microwave frequencies.
19. With the help of neat diagram explain about FMI microwave radio system.

(6 x 10 = 60)

Model Question Paper For Microwave Engineering

Xiaolong Qi



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