

RF AND MICROWAVE ENGINEERING – Nov/Dec 2011 Anna University Previous year Model Question Paper

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2011,
Seventh Semester
Electronics and Communication Engineering
EC 2403 — RF AND MICROWAVE ENGINEERING
(Regulation 2008)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Mention the limitations in measuring Z, Y and ABCD parameters at Microwave frequencies.
2. A 5dB attenuator is specified as having VSWR of 1.2. Assuming that the device is reciprocal, find the S parameters.
3. Write the expression for noise figure of a two port amplifier.
4. What is the need for impedance matching networks?
5. Draw a structure of two hole direction coupler.
6. Find the resonant frequency of the TE₁₀₁ mode of an airfilled rectangular cavity of Dimensions 5 cm × 4 cm × 2.5 cm.
7. Compare tunnel diode and normal P – N diode.
8. List the advantages of parametric amplifier.
9. State any four high frequency limitations.
10. A helix travelling wave tube operates at 4GHz, under a beam voltage of 10kV and beam current of 500mA. If the helix is 25cm and interaction length is 20 cm, find the gain parameter.

PART B — (5 × 16 = 80 marks)

11. (a) (i) A shunt impedance Z is connected across a transmission line with characteristic impedance Z₀. Find the S matrix of the junction. (8)

(ii) List and explain the properties of S parameters. (8)

Or

(b) The S parameters of a two part network are given by

0.2 0

11 S = , 0.1 0

22 S =

o 0.6 90

12 S = , o 0.6 90

21 S =

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