

B.E / B.Tech DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2011
ELECTRONICS AND COMMUNICATION ENGINEERING BRANCH

VI SEMESTER

EC9354 - ANTENNAS AND WAVE PROPAGATION

Time: 3 hr.

Max. Mark: 100

Answer ALL Questions

PART – A

(10 X 2 =20 MARKS)

1. How is the bandwidth of narrowband antennas and wideband antennas specified?
2. Calculate the maximum effective aperture of a microwave antenna which has a directivity of 900. Frequency of operation is 5GHz.
3. State Babinet's principle and specify where it is applied.
4. Distinguish between uniform and tapered aperture. Give their merits and demerits.
5. Obtain the radiation pattern of 8 element array of isotropic antenna spaced $\lambda/2$ apart using principle of pattern multiplication.
6. Give the working principle of phased arrays.
7. State Rumsey's principle of frequency independence in antennas.
8. While measuring gain of a horn antenna the gain of the oscillator was set for 9.00GHz and the attenuation inserted was found to be 9.8dB. Calculate the gain of the horn. The distance between the two horns was 35cm.
9. Under what circumstances duct propagation will be effective? Give reasons for your answer.
10. A pulse of a given frequency transmitted upward is received back after a period of 5milli seconds. Find the virtual height of the reflecting layer.

PART – B

(5 X 16 =80 MARKS)

11. i. Discuss the role of folded dipole in Yagi array. (5)
 ii. Describe how helical antenna works in axial and normal mode. (6)
 iii. Give the radiation mechanism of microstrip antenna. (5)
12. a. Discuss the principle of working of Parabolic reflectors. Explain the various feed techniques, their relative merits and demerits. Discuss the role of f/d ratio in the parabolic reflectors. (f -focal length, D - diameter of reflector) (8)
 (or)
- 12.b.i. Describe the various forms of Horn antenna. Obtain the design equations of Horn antenna. (8)
 ii. Find the length L width W and half flare angle θ_e and θ_h of a pyramidal horn antenna for which the mouth height $h=10 \lambda$. The horn is fed by a rectangular waveguide with TE_{10} mode. (8)
13. a. Obtain the field strength due to N element linear array and obtain the maxima and minima for end fire configuration. (8)
 (or)

Antennas And Wave Propagation Model Question Paper

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