



[La Carreta Rene Marques Pdf 106](#)

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NEW SCHEME

Sixth Semester B.E. Degree Examination, Dec. 06 / Jan. 07
EC / TC

Antenna and Propagation

Time: 3 hrs.]

[Max. Marks:100

Note : Answer any FIVE full questions.

- 1 a. Discuss the following terms as applied to antennas :
 - i) Radiation resistance
 - ii) Isotropic radiation
 - iii) Effective height
 - iv) Directivity and gain
 - v) Beam width. (10 Marks)
- b. Distinguish between near field and far field as applied to radiating element. (05 Marks)
- c. A small dipole antenna carrying a uniform rms current of 10A is having a far zone rms field at a distance 'r' meter in a direction making an angle θ with the conductor given by $E = \frac{200\pi}{r} \sin \theta$ V/m. Find the total radiated power. (05 Marks)

- 2 a. State power pattern theorem and explain. Discuss its applications. (06 Marks)
- b. Show that the directivity for unidirectional operation is $2(n+1)$ for an intensity variation of $U = U_m \cos^n \theta$. (06 Marks)
- c. Calculate the directivity for an intensity variation of $U = U_m \sin^2 \theta \sin^3 \phi$ $0 \leq \theta \leq \frac{\pi}{2}$, $0 \leq \phi \leq 2\pi$. Using :
 - i) Exact method
 - ii) Approximate method. (08 Marks)

- 3 a. Discuss the fields of short dipole with respect to spherical co-ordinate system. Derive mathematical relations. (10 Marks)
- b. Calculate the maximum effective aperture of a short dipole. (04 Marks)
- c. Show that radiation resistance of $\frac{\lambda}{2}$ - antenna is 73 ohms. (06 Marks)

- 4 a. Explain the different types of apertures and their inter-relationships. (08 Marks)
- b. Explain Hansen and Woodyard array. (08 Marks)
- c. For an 8 element array with equal spacing of 0.7λ and fed with equal amplitude and phase, find the approximate gain and FNBW. (04 Marks)

- 5 a. Explain Babinet's principle with illustrations. Discuss features of complementary antenna.
- b. Write explanatory note on frequency independent antenna.
- c. Calculate horn parameters i) length 'L' ii) flare angle ' θ ' iii) flare angle ' ϕ ' iv) width 'a' if mouth height 'b' is 10λ and the horn is fed by a rectangular waveguide with TE₁₀ mode.

Contd.... 2



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