IMPORTANT QUESTIONS

Q1. Give Relation between current distribution and field pattern of antenna.
Q2. Draw radiation pattern for horizontal and vertical dipole.
Q3. Explain input impedance broadband matching.
Q4. Derive the expressions for field components of a short dipole.
Q5. Explain concept of antenna impedence.
Q6. Explain Antenna temperature.
Q7. Describe antenna pattern and antenna parameters.
Q8. Find radiation resistance and directivity of an infinitely small dipole .
Q9. Explain various potentials used in antenna theory.
Q10. Explain effect of ground on antenna pattern.
Q11. Obtain field expressions for a half wave dipole.
Q12. Give wave equation for radiated fields in terms of electric scalar and magnetic vector potential.
Q13. Explain principle of pattern multiplication with example.
Q14. What is an endfire array? Deduce an expression for the radiation pattern of an N-element endfire array. Sketch the radiation pattern for a four element endfire array in horizontal and vertical planes.
Q15. What is a broadside array? Deduce an expression for the radiation pattern of an N-element broadside array. Sketch the radiation pattern for a four element broadside array in horizontal and vertical planes.
Q16. Plot radiation pattern for two element broadside and end fire array
Q17. What is horn antenna? Give its design equations.
Q18. Explain Log periodic and Microwave antennas with their design considerations.
Q19. Explain skip distance.
Q20. Explain Duct propagation and super refraction.
Q21. Explain Ionospheric propagation and effect of earth on it.
Q22. Differentiate between ground wave and Space wave propagation.
Q23. Describe picture tube. Differentiate picture and sound transmission and reception.
Q24. Explain image orthicon and vidicon.
Q25 . Explain elements of a TV system.