

Note. Attempt all questions

1. what are Coplaner TL.
2. write similarities & dissimilarities between waveguides and 2-wire transmission line.
3. what are Micro strip TL.
4. what are the field components in Rectangular waveguides.
5. Calculate cutoff frequency of a waveguide . Explain it as High pass Filter in a wave guide.
6. what is Group Velocity, Guide Wavelength and Phase Velocity.
7. Explain circular waveguides.
8. Explain Two Cavity Klystron in microwave devices.
9. What do you mean by TWT ?
10. What is Reflex Klystron.
11. Give applications of microwave tubes.
12. What are conventional active devices.
13. What are isolators and phase shifters.
14. What is Faraday Rotation?
15. Explain s-parameter analysis.
16. Define Isolators & Circulators.
17. What are Microwave Hybrid Circuits?
18. Write short note on Hybrid Couplers.

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19. What are isolators and phase shifters.
20. What is Microwave Engineering?
21. Define s-matrix and its properties?
22. Write the applications of microwave engineering?
23. Why is s-matrix used in MW analysis?
24. What are the advantages of ABCD matrix?
25. What are junctions ? Give some example
26. What are non-reciprocal devices ?Give two examples?
27. What are the applications of reflex klystron?
28. What is the purpose of slow wave structures used in TWT amplifiers?
29. Give two examples for two port junctions.