

**PLEASE GIVE THE EXAMPLES, DIAGRAMS AND FLOW CHARTS WHEREVER APPLICABLE.

1. Name the basic units of communication system?
2. What is transducer? Give an example.
3. What is a modulated wave?
4. Give an expression for bandwidth in AM and FM modulation?
5. What is noise?
6. Name any two modes of modulation used for pulsed carrier wave?
7. Why FM is preferred over AM?
8. What is modem? Where it is used? Explain with the help of a diagram?
9. What is half duplex and full duplex?
10. What is fax? Explain with the help of diagram?
11. What do you mean by PCM? Give an example.
12. What are analog and digital signals?
13. What are the merits of digital signals?
14. An audio signal of amplitude (a) equal to (b) 1.5 times the carrier amplitude modulation.
Find the modulation index in each?
15. Calculate the length of half wave dipole at (a) 30 MHz (a) 300 MHz (a) 3000 MHz. What conclusion do you get from the result?
16. Explain AM and FM with the help of Diagrams.