



XII Std. Open Book Test-5: Modern Electronics Comm.

Max. Marks: 24

Ques 1: Fill in the blanks: (1+1+1+1+1=5)

- 1) In _____ comm. system, bidirectional communication takes place. (half duplex, full duplex, simplex)
- 2) The difference between higher and lower frequencies is called as _____. (modulation index, bandwidth, phase)
- 3) The height of antenna in a comm. system is given by: _____. ($h=C/T$, $h=F/C$, $h=C/F$)
- 4) In AM, to achieve under modulation, the value of 'm' should be _____ unity. (greater, less, equal to)
- 5) ASCII code is a _____ bit code. (5, 8, 7)

Ques 2: What are the applications of satellite? Explain any four applications in brief. (1+1+1+1=4)

Ques 3: What is network topology? Explain the three types of LANs with necessary diagrams. (1+1+1=3)

Ques 4: Draw the block diagram of Facsimile machine and explain its working in brief. ($1\frac{1}{2}+2\frac{1}{2}=4$)

Ques 5: Draw functional block diagram of optical fiber comm. system and explain its working. (1+3=4)

Ques 6: Derive the equation of AM wave and explain the three types of modulations with diagrams. (2+2=4)

Also prepare: FM (58), necessity of modulation (55), advantages of optical fiber (65) and RADAR (70).



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