

Time : 3 Hours

Max. Marks: 75

(No additional sheet will be supplied)

PART – A (5 x 3 = 15 marks)

Answer any FIVE Questions

Each question carries 3 marks

Each answer should not exceed 1 page

1. What is the difference between low pass and band pass?
2. Explain Signal to noise ratio in PCM
3. Explain time division multiple access
4. Explain the working of CDMA
5. What do the different types of fibres?
6. What is the system designed considerations
7. Explain bandwidth efficiency
8. Explain different INSAT satellite and its uses

PART – B (4 x 15 = 60 marks)

Answer ALL Questions

Each question carries 15 marks

Each answer should not exceed 6 pages

9. a) Explain PCM transmission
b) Discuss the operation of Adaptive Delta modulation
(OR)
10. a) Explain the operation of BPSK using diagram
b) Explain the operation of QAM
11. a) Explain the local area net work.
b) Explain FDMA
(OR)
12. Explain the concepts of
(i) ALOHA (ii) WDMA
13. Explain the advanced multiplexing strategies
(OR)
14. a) Explain the detection principles
b) Discuss the de-modulation schemes
15. Explain the digital micro wave system with necessary diagram
(OR)
16. Derive expression for up-link and down-link budget for satellite communication system ?

