933 Register No.:

April 2024

Time – Three hours
(Maximum Marks: 100)

[N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. Define RADAR. List the factors influencing maximum range.
2. Define video phone.
3. Define crosstalk.
4. Name the error detection codes.
5. Differentiate between single mode and multimode fibers.
6. Mention the various light sources used in fiber optic communication.
7. State Kepler's second law.
8. What is station keeping?
9. Define frequency reuse.
10. What is GSM?

[Turn over.....

PART – B

11. (a) Draw the Block diagram of pulsed radar system and describe it.

(Or)

(b) Explain ISDN architecture with neat diagram.

12. (a) Draw a neat block diagram of digital communication system and explain.

(Or)

(b) Explain the block diagram and operation of QPSK modulation and demodulation techniques.

13. (a) Explain the losses in fiber optic communication.

(Or)

(b) Explain the operation of fiber optic receiver with block diagram.

14. (a) With the block diagram explain transmit – receive earth station.

(Or)

(b) Explain the operation of parametric amplifier.

15. (a) Explain co-channel interference and adjacent channel interference.

(Or)

(b) Explain about satellite multiple access techniques.
