

Register No.:

1986

April 2025

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. Mention any three applications of RADAR.
2. Define PSTN.
3. What is crosstalk?
4. State the need of parity check codes.
5. State the principle of light transmission in a fiber.
6. List out any three applications of optical fiber.
7. State the advantages of geostationary synchronous satellites.
8. Write notes on station keeping.
9. What is handoff?
10. Compare TDMA and FDMA.

[Turn over.....]

PART - B

11. (a) Explain the working of pulsed radar system with block diagram.
(Or)
(b) Describe the architecture of ISDN with its features.
12. (a) Explain the basic elements of digital communication system with block diagram.
(Or)
(b) Discuss about ASK and PSK modulation and demodulation techniques with block diagrams.
13. (a) Describe optical communication system with block diagram.
(Or)
(b) Write a detailed note on optical transmitter with its block diagram.
14. (a) Discuss about transmit and receive earth station with block diagram.
(Or)
(b) Explain the operation of parametric amplifiers.
15. (a) Discuss the fundamental concepts of cellular telephone system with neat diagram.
(Or)
(b) Describe the architecture of GSM system with neat sketch.
