

985

October 2023

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 the types of pulsed radar system.
2. What is PSTN?
3. Define Baud rate.
4. Define odd parity and even parity.
5. What is the principle of light transmission in fiber using ray theory?
6. Define multimode fiber.
7. Define Kepler's II law.
8. What is meant by station keeping in satellite communication?
9. What is GSM?
10. What is hand off?

PART - B

11. (a) Explain ISDN architecture with neat diagram.

(Or)

(b) Draw the block diagram of instrument landing system. Explain its each block.

12. (a) Explain forward and reverse error correcting codes.

(Or)

(b) Explain any two digital demodulation techniques.

13. (a) With the block diagram explain optical communication system.

(Or)

(b) With neat diagram, explain the operating principle of semiconductor LASER source and APD optical detector.

14. (a) (i) Write Short notes on TWT. (7)
(ii) Write about antenna subsystem. (7)

(Or)

(b) (i) Explain apogee and perigee. (7)
(ii) Explain transponders. (7)

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

(Or)

(b) Explain about the Code Division Multiple Access (CDMA) technique. List its advantages.
