

Register No.:

**1537**

**October 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. Mention the important parts placed in RADAR system.
2. List the features of ISDN.
3. Define Baud rate.
4. Define odd parity and even parity.
5. What are the advantages of optical fiber communication systems?
6. Write short notes on semiconductor LASER.
7. Define satellite communication.
8. What is the function of transponder?
9. Write about bluetooth technology.
10. What is GPRS?

[Turn over.....

**PART – B**

11. (a) Explain the working of pulsed radar system with a neat block diagram.  
(Or)  
(b) Explain about public switched telephone network (PSTN).
12. (a) Explain about digital communication system with a neat block diagram.  
(Or)  
(b) Write notes on different digital modulation techniques with necessary diagrams.
13. (a) Describe about the different types of fibers.  
(Or)  
(b) Explain about optical transmitter and receiver with a neat block diagram.
14. (a) Discuss about the parabolic reflector antenna with a diagram.  
(Or)  
(b) Explain the operation of microwave transmitter and receiver with block diagram.
15. (a) Explain the fundamental concepts of cellular telephone system with neat diagram.  
(Or)  
(b) Write short notes on TDMA, FDMA and CDMA.

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