

Register No.:

117

April 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. Explain the maximum range of Radar.
2. Define video phone.
3. Define Baud rate.
4. Define PSK modulation.
5. What is graded index fiber?
6. Mention the various types of scattering losses.
7. Define Kepler's second law.
8. Define transponder.
9. Write about blue tooth technology.
10. Define digital cellular system.

[Turn over.....

PART - B

11. (a) Explain aircraft landing system and mention its types.  
(Or)  
(b) Explain features of ISDN and Model of ISDN.
12. (a) With the block diagram explain QPSK modulator and demodulator.  
(Or)  
(b) State the advantages, disadvantages and applications of digital communication.
13. (a) Explain about types of optical fiber.  
(Or)  
(b) Explain any two applications of optical transmitter with neat diagram.
14. (a) Explain the fundamental concepts of cellular telephone.  
(Or)  
(b) Explain with necessary block diagram transmit and receive earth station.
15. (a) Explain frequency reuse and footprint.  
(Or)  
(b) Explain FDMA.

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