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Register No.:

April 2018

Time - Three hours (Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART A and Q.No. 16 in PART B are compulsory.

 Answer any FOUR questions from the remaining in each PART A and PART B
 - (2) Answer division (a) or division (b) of each question in PART C.
 - (3) Each question carries 2 marks in PART A, 3 marks in Part B and 10 marks in PART C.]

PART - A

- 1. Write about a basic RADAR system.
- 2. What is bending loss?
- 3. What is cross talk in a digital communication system?
- 4. What are redundant codes?
- 5. What is a single mode fiber?
- 6. What is splicing?
- What is perigee?
- 8. What is video phone?

PART - B

- 9. Explain about electronic switching system.
- 10. Explain about IOC.
- 11. Explain any one of the digital modulation techniques.
- 12. Explain the differences between PIN and APD diodes.
- 13. Explain about Kepler's laws.
- 14. Explain about GPS.
- 15. Mention about frequency reuse in cellular system.
- 16. Mention about the basics of GPRS.

Turn over....

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PART - C

17. (a) Explain about an instrument landing system.

(Or)

- (b) Describe the ISDN architecture with a block diagram.
- (a) Draw and explain the basic elements of a digital communication system.

(Or)

- (b) Explain the block diagram and operation of FSK modulation and demodulation techniques.
- 19. (a) Describe about the principle of light transmission through fiber using ray theory.

(Or)

- (b) Explain the operating principle of LASER as a fiber optic light source.
- 20. (a) Explain: (i)Earth eclipse of a satellite (ii)Station keeping.

(Or)

- (b) Explain microwave link repeater with a block diagram.
- 21. (a) Explain the simplified cellular system.

(Or)

(b) Explain the basics of Bluetooth technology.
