

3760
BOARD DIPLOMA EXAMINATION, (C-09)
JUNE - 2019
DIPLOMA IN ELECTRONICS & COMMUNICATION ENGINEERING
ADVANCED COMMUNICATION SYSTEMS
SIXTH SEMESTER EXAMINATION

Time: 3 Hours**Total Marks: 80**

PART - A (10 x 3 = 30 Marks)

Note 1: Answer all questions and each question carries 3 marks

2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. State the basic principle of radar.
2. Write the applications of reflex klystron.
3. List the applications of radar.
4. Define azimuth angle and elevation angle.
5. What is a Microwave link.
6. Draw the block diagram of an earth station.
7. List the different splices.
8. Mention the principle of DWDM.
9. Mention the advantages of digital cellular system.
10. Mention the main features of AMPS.

PART - B (5 x 10 = 50 Marks)

Note 1: Answer any five questions and each question carries 10 marks

2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. Explain the propagation of waves in waveguide.
12. a) Explain the operation of duplexer with diagram.
b) Explain about PPI display.
- * 13. Draw the block diagram of a communication satellite and explain the function of each block.
14. Explain the application of satellite in telephony.
15. Explain the operation of laser diodes used in optical fibre communication.
16. a) Explain total internal reflection used in optical fibres.
b) List the various losses in fibre.
17. Write on power control and soft hand off in CDMA.
18. a) Describe basic cellular system operation.
b) State the significance of frequency reuse in cellular system.

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