

ECMS3 Advanced Communication Systems

809

REG. NO

OCTOBER 2021

Time: Three hours

Maximum Marks: 75

- Note:
1. Answer ALL the questions in PART-A (1 mark each)
 2. Answer any ONE question from each unit in PART-B (3 marks each)
 3. Answer any ONE question from each unit in PART-C (10 marks each)
 4. The question paper contains TWO Pages

PART-A (1x10=10)

1. What is PPI?
2. Write the two types of telephone system.
3. What are error correction codes?
4. Define ASK modulation.
5. What is optical communication?
6. What is graded index fiber?
7. State Kepler's third law.
8. What is launching vehicle?
9. Expand GPRS.
10. What is handoff?

PART-B (3x5=15)

UNIT-I

11. State any three applications of RADAR.
12. Draw the diagram of direct recording system.

UNIT-II

13. Mention the characteristics of digital communication.
14. Define redundant code.

UNIT-III

15. Write the applications of optical fiber.
16. Draw the block diagram of optical receiver.

UNIT-IV

17. State any three advantages of geostationary orbit.
18. Write short notes on TWT.

UNIT-V

19. Write short notes on cell sectoring.
20. Write about the working of co-channel interference.

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PART-C (10x5=50)

UNIT-I

21. Explain Instrument landing system with necessary diagrams.
22. Explain the basic principle of electronic telephone exchange with block diagram.

UNIT-II

23. Draw and explain the block diagram of basic digital communication system.
24. With block diagram explain FSK modulator and demodulator.

UNIT-III

25. Explain the various types of losses in fibers.
26. Explain the Principles of LASER with diagram.

UNIT-IV

27. With neat sketch explain the working Principle of Cassegrain antenna.
28. Explain the operation of TWT.

UNIT-V

29. Explain briefly simplified cellular telephone system.
30. Explain CDMA in detail.
