



C09-EC-604

3760

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2021

DECE - SIXTH SEMESTER EXAMINATION

ADVANCED COMMUNICATION SYSTEMS

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

Instructions : (1) Answer *any five* questions.

(2) Each question carries **four** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Explain different types of wave guides.
2. List the types of indicators used in radar system.
3. State the disadvantage of pulsed radar.
4. Define the terms apogee and perigee.
5. List the Indian communication satellites.
6. List the applications of satellites.
7. Mention the applications of optical fibres.
8. Mention two types of optical detectors.
9. Define handoff in mobile communication.
10. Explain security aspect of GSM.

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[Contd...

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PART—B

15×4=60

- Instructions :** (1) Answer *any four* questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain the operation of magic tee.
12. Draw and explain the block diagram of pulsed radar system.
13. Explain fixed microwave link with block diagram.
14. Draw the block diagram of communication satellite and explain any one subsystem.
15. Explain the advantage of optical fibers in communication.
16. Explain wave length division multiplexing with block diagram.
17. Describe cellular system operation.
18. Explain about global star system.

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