



C09-EC-604

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**BOARD DIPLOMA EXAMINATION, (C-09)
APRIL/MAY—2015
DECE—SIXTH SEMESTER EXAMINATION
ADVANCED COMMUNICATION SYSTEMS**

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions** : (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Write the applications of TWT.
2. What is Doppler effect?
3. List the types of indicators used in radar systems.
4. List the Indian communication satellite.
5. State the function of microwave link.
6. Draw the block diagram of an earth station.
7. Mention the advantages and disadvantages of APDs over PIN diodes.

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8. Write the ^{*}features of submarine cables.
9. Explain soft hand-off in CDMA.
10. Draw the block diagram of basic cellular system.

PART—B

10×5=50

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

11. Explain in detail the factors affecting radar range.
12. Explain the various modes of operation in waveguides.
13. (a) Explain communication subsystem. 5
(b) Explain attitude control subsystem. 5
14. Explain the transponder used in satellites with a block diagram.
15. Explain fibre optic communication system with block diagram.
- ^{*}16. Explain the principle of DWDM with block diagram.
17. Explain about AMPS.
18. Explain about IRIDIUM system.
