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BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV-2013

DECE—SIXTH SEMESTER EXAMINATION

ADVANCED COMMUNICATION SYSTEMS

Time: 3 hours]

[Total Marks : 80

PART-A

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.** Give the classification of radar.
- 2. Write about rectangular and circular waveguides.
- **3.** Write the applications of reflex klystron.
- **4.** Draw the block diagram of fixed microwave link.
- **5.** State the functions of telemetry, tracking and control subsystem.
- **6.** List the Indian communication satellites.
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- 7. Define numerical aperture and dispersion.
- 8. Write features of submarine cables.
- 9. State the use of Global star system.
- **10.** Write the basic concepts of CDMA systems used in mobile communication.

PART-B

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. Draw the block diagram of CW radar and explain its working.
- **12.** Explain A scope, B scope and PPI displays.
- **13.** Draw the block diagram of earth station and explain the function of each block.
- **14.** Explain the methods for increasing channel capacity of a satellite system.
- **15.** Explain the principle of DWDM with block diagram.
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- **16.** Explain the operation of PIN diode used as detector in optical fibre communication.
- 17. Explain about AMPS.

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18. Explain the functional architecture of intelligent network.

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