



C14-AEI-603

4707

BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2017
DAEIE—SIXTH SEMESTER EXAMINATION
COMMUNICATION ENGINEERING

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. Sketch the AM wave.
2. Distinguish between AM and FM in any three aspects.
3. Draw the single-diode detector circuit.
4. State the need of RF and IF amplifier stages in receiver circuits.
5. Define the term WAN.
6. List the applications of PCM in pulse modulation.
7. Give the principle of pulse modulation.
8. Draw the block diagram of Raday.

* 9. Compare between the terms CDMA and GSM in three aspects.

10. State the features of modem.

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 the video conferencing with block diagram.

12. Explain the FM receiver circuit with diagram.

13. Explain the operation of a Fosters-Seely demodulator circuit.

14. Explain time division multiplexing methods with a sketch.

15. Explain the principle of satellite communication with diagram.

16. Explain the method of FM generation by using varactor diode.

17. Explain in detail about SSB and DSB.

* 18. (a) Explain the SIM card of a cell phone.

(b) List different types of pulse modulation methods.
