



C14-AEI-603

4707

**BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
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. List any three applications of PAM type of modulation.
2. Define the term selectivity.
3. Give different types of pulse modulation methods.
4. Draw the crystal receiver circuit.
5. Distinguish between AM and FM in three aspects.
6. State the need of modulation in communication.
7. Mention the features of routers.
8. State the need for PPP.

* 9. Give three differences between GSM and CDMA.

10. Write few lines about SIM card of cell phone.

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 FM with waveforms and write its expression.

12. (a) State the basic principle of RADAR. 5

(b) Explain the principle of pulse modulation. 5

13. Explain the internet communication.

14. Explain about the AM transmitter with a block diagram.

15. Explain the operation of a foster-seeley demodulator circuit.

16. Sketch the waveforms of PAM, PPM, PWM.

17. Explain the working principle of transmitter in fiber optic communication systems.

* 18. Explain about the single-diode detector circuit with a circuit.
