



C14-AEI-603

4707

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**MARCH/APRIL—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. List any three types of pulse modulation.
2. State the various types of multiplexing methods in pulse modulation.
3. Give the list of FM demodulator circuits.
4. Define fidelity.
5. Distinguish between FM and PM in any three aspects.
6. Name the different types of modulation.
7. Define the term LAN.
8. State the need for VPN.
9. State the principle of satellite communication system.
10. Differentiate between CDMA and GSM in three aspects.

\*

**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 e-mail and online chat.
12. Explain AM modulation with waveforms and state the expression for it.
13. Describe about the FM transmitter with a circuit diagram.
14. Explain the principle of FM detector with a circuit diagram.
15. Explain the principle of TRF receiver with diagram.
16. Explain the frequency division multiplexing method with a sketch.
17. Explain the basic principle of RADAR with a block diagram.
18. (a) List the applications of PWM.

- (b) Explain the working of receiver used in optical fiber communication system.

\*\*\*