6235

BOARD DIPLOMA EXAMINATION, (C-16)

OCTOBER/NOVEMBER—2023

DECE - THIRD SEMESTER EXAMINATION

ANALOG AND DIGITAL COMMUNICATION SYSTEMS

Time : 3 Hours]

[Total Marks : 80

PART—A	
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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.** Define frequency modulation.
- **2.** State the need of modulation in communication systems.
- **3.** Define the terms (a) signal to noise ratio and (b) noise figure.
- **4.** State sampling theorem.
- **5.** Define overhead and efficiency of data communication system.
- **6.** List different error detection schemes.
- **7.** Compare low-level modulation with high-level modulation.
- **8.** Define the terms (*a*) sensitivity and (*b*) selectivity of a radio receiver.
- **9.** State the need of multiplexing.
- **10.** Compare TDM with FDM.

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[Contd...

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PART—B

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10×5=50

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