



C14-CM-505

4628

BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2018
DCME—FIFTH SEMESTER EXAMINATION
DATA COMMUNICATION

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 various modes of data transmission.
2. Define bandwidth
3. Differentiate modem and adapter.
4. List the types of data representations.
5. Write the relationship between a signal's spectrum and its bandwidth.
6. Write about differential encoding.
7. Define a parity bit.
8. List the disadvantage of asynchronous transmission.
9. Define Multiplexing.
10. List about advantages of packet switching compared to circuit switching.

PART-B

10×5=50

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- Instructions :** (1) Answer *any five* questions.
(2) Each questions carries **ten** marks.
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Discuss about point-point, multipoint and broad casting communication.
12. Explain the working principle of modem.
13. Explain about the transmission impairments.
14. Explain different data transmission media in detail.
15. Differentiate between NRZ-L and NRZ-I including the signals.
16. Write about any two multilevel binary digital-to-digital encoding techniques.
17. Explain about frequency-division multiplexing(FDM).
18. Explain about switching network techniques.

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