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C14-CM-505

4628

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE—2019

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. What is point to point communication?
2. What is meant by communication rate?
3. List the functions of modem.
4. Define fundamental frequency.
5. List different data transmission media.
6. Write about modulation.
7. List different types of errors.
8. What is the need of error detection techniques?
9. Write a short note on FDM.
10. What is frame relay?

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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 about modes of data transmission.
12. Explain the operation of direct connect modem.
13. Differentiate between analog and digital electromagnetic signal.
14. Distinguish between guided media and unguided media.
15. Explain modulation techniques for transforming digital-data into analog signals.
16. Explain synchronous and asynchronous transmission with frame formats.
17. Compare circuit switching with packet switching.
18. Write about statistical Time-Division Multiplexing.

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