



# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE**

**FIFTH SEMESTER – NOVEMBER 2016**

**CS 5506 – INTRODUCTION TO DATA COMMUNICATION**

Date: 05-11-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

## PART – A

**Answer all the Questions**

**(10x2=20)**

1. Define the term: Data Communications.
2. List the components of a Data Communication.
3. What do you mean by TCP/IP?
4. Define Bandwidth.
5. Mention the categories of digital-to-digital encoding.
6. Write a note on Parallel Transmission.
7. List the various unguided media used for transmission.
8. Mention any two Modem Standards?
9. What is FDM?
10. What is Inverse Multiplexing?

## PART – B

**Answer all the Questions**

**(5x8=40)**

11. a. Explain briefly about the categories of Networks.  
(Or)  
b. Write short notes on Protocols and Standards.
12. a. Explain about Periodic and Aperiodic Signals?  
(Or)  
b. Explain the responsibilities of Data Link Layer.
13. a. Discuss briefly on Serial Transmission.  
(Or)  
b. Explain briefly about Analog-to-Analog Conversion?
14. a. What are MODEMS? Explain.  
(Or)  
b. Discuss any two guided Transmission media.
15. a. Explain about multiplexing with a neat diagram.  
(Or)  
b. Discuss briefly about different types of Errors in Transmission.

## PART – C

**Answer any TWO Questions**

**(2x20=40)**

16. a. What is a Topology? Names the various topologies and sketch their Structures.  
b. Discuss in detail about OSI Model.
17. a. Discuss in detail about simple analog signals.  
b. Explain detail about unguided media.
18. a. Explain different types of Multiplexing in detail.  
b. Explain the various transmission modes in detail.

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