



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIFTH SEMESTER – NOVEMBER 2017

CS 5506 – INTRODUCTION TO DATA COMMUNICATION

Date: 03-11-2017

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART - A

Answer ALL the Questions

(10 x 2 = 20 Marks)

1. Define Networks.
2. List out the categories of Line Configuration?
3. Differentiate between Switching and routing.
4. Define Digital signal.
5. What is encoding?
6. What is DTE?
7. Define Modem.
8. Differentiate between UTP and STP cable.
9. What is Multiplexing?
10. Define Single- Bit error.

PART - B

Answer ALL the Questions

(5 x 8 = 40 Marks)

11. a) Discuss about the Standard Organizations in detail.
(OR)
b) Explain about the Transmission mode in detail.
12. a) Explain about Aperiodic and Periodic Signals in detail.
(OR)
b) Write notes on analog and digital signals.
13. a) Discuss about the Digital to Digital Transmission in detail.
(OR)
b) Explain about the EIA 232 interface Standards.
14. a) Describe about the Transmission Rate in detail.
(OR)
b) Explain about the unguided media in detail.
15. a) Explain about the telephone system in detail.
(OR)
b) Discuss about the Error Detection Method.

PART - C

Answer any TWO Questions

(2 X 20 = 40 Marks)

16. a) Explain in detail about the Types of Topology. (10 Marks)
b) Explain about the functions of the OSI Model. (10 Marks)

17. a) Describe in detail about the DTE-DCE Interface. (10 Marks)
b) Explain in detail about the Types of Transmission Media. (10 Marks)

18. a) Explain about the Types of Multiplexing in detail. (12 Marks)
b) Discuss about Error Correction Method in detail. (8 Marks)
