



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. & B.C.A. DEGREE EXAMINATION – COMPUTER SCIENCE & APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2016

CA / CS 5404 - DATA COMMUNICATION NETWORK

Date: 09-11-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

10x2 = 20 marks

Answer all the questions:

1. What is data communication?
2. Define: protocol
3. What is the use of physical layer?
4. What is periodic signal?
5. What is decoding?
6. What digital transmission?
7. What is transmission media?
8. What are the disadvantages of fiber optic cable?
9. What is demultiplexing?
10. What is error detection?

PART – B

5x8 = 40 marks

Answer all the questions

- 11.a) Write a short notes on components of data communication.
(or)
b) Explain about internetwork with neat diagram.
- 12.a) Draw a neat diagram of OSI model.
(or)
b). Explain about digital signals with the diagram
13. a) Explain about digital transmission.
(or)
b).Explain about DCE interface.
14. a) Explain about different types of modem.
(or)
b) Write short notes on guided media.
15. a) Write short notes on multiplexing
(or)
b) Explain about error correction.

PART- C

2x 20 =40 marks

Answer any Two questions

16. a). Explain in detail about different types of network topologies.

b). Discuss in detail about the functions of each layer in OSI model.

17. a) Explain in detail about DTE in detail

b). Discuss in detail about unguided Media.

18. a) Explain in detail about different types of multiplexing.

b). Discuss about the difference between OSI and TCP/IP model.
