



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc., B.C.A. DEGREE EXAMINATION – COMPUTER SCIENCE & COMP. APP.

FIFTH SEMESTER – APRIL 2018 {****}

CS/CA 5404- DATA COMMUNICATION & NETWORKS

Date: 10-05-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer all the questions:

10X2=20 Marks

1. Define the term data communication.
2. What is line configuration?
3. List the responsibilities of transport layer.
4. Write the difference between analog signal and digital signal.
5. What is Bipolar encoding?
6. Define the term DCE and DTE.
7. List the difference between serial transmission and parallel transmission.
8. Write about step index and graded index mode.
9. What is multiplexing?
10. List out the types of error.

PART-B

Answer all the questions:

5X8=40 Marks

11. a) Write the components of data communication with a neat diagram.
(OR)
b) Write in brief about categories of network with examples.
12. a) Write the functions of physical layer and data link layer.
(OR)
b) Write in brief about simple analog signal.
13. a) List the difference between Manchester and differential Manchester encoding.
(OR)
b) Explain in brief about EIA 232 standards.
14. a) Write in short about X series modem.
(OR)
b) Write the difference between guided and unguided transmission medium.
15. a) Write in short about the time division multiplexing with an example.
(OR)
b) Write about error correction with an example.

PART-C

Answer any two questions:

2X20=40 Marks

16. a) Discuss in detail about topologies with examples.
b) Explain in detail about digital signals with an example.
17. a) Discuss in detail digital to digital encoding.
b) Write about the different types of propagation utilized by radio transmission.
18. a) Explain in detail about any two error detection methods.
b) Discuss the working of internet.

\$\$\$\$\$\$\$\$

