

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

THIRD SEMESTER – NOVEMBER 2009

CS 3808 - COMPUTER NETWORKS

Date & Time: 10/11/2009 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

PART – A

ANSWER ALL THE QUESTIONS

10X2=20

1. List out the uses of the internet for home users.
2. What is unicasting? Give an example.
3. Define the term character stuffing.
4. Draw binary encoding and differential Manchester encoding transition diagram
5. What is time domain reflectometry?
6. Write about SIFS and PIFS.
7. Draw the format of TCP header.
8. Give the principles of Kerckhoff's.
9. What is file transfer?
10. List out the data compression techniques.

PART – B

ANSWER ALL THE QUESTIONS

5X8=40

11. a) Draw the OSI reference model and explain about any two layers of the OSI.
(Or)
11. b) Write about X.25 and Frame relay.
12. a) Explain in short about the sliding window protocol.
(Or)
12. b) Differentiate between static and dynamic channel allocation in LAN and MAN.
13. a) Write down the difference between datagram and virtual-circuit subnets.
(Or)
13. b) Give brief notes on multicast routing.
14. a) Write down the principal of DNS resource record types for IPV4
(Or)
14. b) Explain RSA algorithm with an example.
15. a) Write in brief about Application layer.
(Or)
15. b) Write short notes on file access and management.

PART – C

ANSWER ANY TWO QUESTIONS

2X20=40

16. a) Discuss in detail about guided transmission media.
b) Explain about design issues of data link layer.
17. a) List out the services of network layer in the internet.
b) Write in detail about voice over IP.
18. a) Illustrate Public key algorithm with an example.
b) Explain detail about presentation layer design issues
