



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – NOVEMBER 2016

16PCS1MC05 - ADVANCED COMPUTER NETWORKS

Date: 11-11-2016
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Section A

Answer All the questions

(10 x 2=20)

1. Write down the four service primitives.
2. What is WAN?
3. What is coaxial cable?
4. Define Hamming Distance.
5. What is flooding?
6. Define datagram.
7. Specify the range of IP host address in class C type.
8. Write down the techniques used to restrict the packet's lifetime.
9. Define silly window syndrome
10. Write any differences between infrared and Bluetooth.

Section B

Answer any Five questions

(5x8 =40)

11. a) Explain wireless networks ?
(OR)
b) Explain protocol hierarchies along with layers and interfaces
12. a) Compare satellite communication with terrestrial communication.
(OR)
b) Explain Microwave transmission in detail
13. a) Explain hierarchical routing algorithm
(OR)
b) Explain connectionless internetworking
14. a) Explain connection release in transport layer
(OR)
b) Explain RPC in detail
15. a) Explain IEEE802.11 protocol specifications.
(OR)
b) Explain Bluetooth protocol stack

Section C

Answer Any two questions

(2x20=40)

16. (a) Explain TCP/IP reference model . How it differs from OSI model
(b) Explain fiber optics cable and compare with copper wire.
17. (a) Explain sliding window protocol with go back –N.
(b) Explain TCP segment header with block diagram.
18. (a) Explain WLAN services and configurations.
(b) Explain error detecting codes in detail.
