



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - COMPUTER SCIENCE

THIRD SEMESTER – NOVEMBER 2013

CS 3822 - WIRELESS AND COMMUNICATION NETWORKS

Date : 09/11/2013
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer All the Questions.

10 X 2=20

1. Mention the types of interference in cellular technology.
2. Define ping pong effect.
3. List out the services available in GSM.
4. What is CDMA?
5. Classify the mobile data networks.
6. What are the new elements added to the GSM architecture to support GPRS?
7. Mention the three different parameters that define the priorities of medium access.
8. Write the classes of Bluetooth transceivers.
9. What is the purpose of firewall?
10. Define Time out freezing.

PART- B

Answer All the Questions

5 X 8=40

- 11 (a) Compare Adhoc and infrastructure Network Topologies.
OR
(b) Write and Explain Handoff decision time algorithms.
- 12 (a) Explain TDMA frame hierarchy with neat diagram.
OR
(b) Discuss the purpose of pilot channels in CDMD with neat diagram.
- 13 (a) Explain the services offered by CDPD and the interfaces used in CDPD.
OR
(b) What is WAP? Explain how internet based application are being adapted to the cellular System using WAP
- 14 a) Explain about physical layer of IEEE 802.
OR
b) Elaborate the WATM services with examples from user's perspective.
- 15 (a) Discuss about the messages used for optimization.
OR
b) Elaborate the concept and working of snooping TCP.

PART-C

- 16 (a) Explain the architectural methods required for capacity expansion in cellular technology.
(b) Discuss about the forward channel in CDMD with neat diagram.

- 17 (a) Explain the Handoff management in GPRS.
(b) Explain about the elements of core protocol in Blue tooth.

- 18 a) Compare the different approaches used for mobile TCP .
b) Write the advantages and disadvantages of the following
(i) Infrared (ii) radio transmission
