



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE**

**SECOND SEMESTER – APRIL 2014**

**CS 2812 - MOBILE COMPUTING**

Date : 03/04/2014  
Time : 09:00-12:00

Dept. No.

Max. : 100 Marks

**PART – A**

**ANSWER ALL QUESTIONS:**

**10X 2 = 20**

1. Define Frequency division duplex (FDD).
2. Write any two features of GSM-Rail.
3. List out new network elements which are introduced in GPRS.
4. What are different broadcast patterns?
5. Define geostationary earth orbit.
6. Define Care of Address.
7. What is reverse tunneling?
8. What is time-out freezing?
9. Write the advantages of Snooping.
10. Draw the primitive which is used to send a datagram in WDP.

**PART – B**

**ANSWER ALL QUESTIONS:**

**5X 8 = 40**

11. a) Explain the scenarios Hidden and Exposed terminals and Near and Far terminals  
OR  
b) Compare the MAC schemes SDMA, TDMA, FDMA and CDMA.
12. a) Explain about the physical layer of IEEE 802.11 OR  
OR  
b) Write two different transmission technology and discuss their advantages and disadvantages.
13. a) Explain about Digital audio broadcast system frame structure.  
OR  
b) List out Entities and define the terms in mobile IP.
14. a) What is optimization? How to optimize the route in mobile IP?  
OR  
b) Discuss about the mobile TCP advantages and disadvantages.

15. a) Explain about wireless application protocol(WAP) architecture  
OR  
b) Discuss about WSP/B-establishment, suspension, resume and termination.

**PART – C**

**ANSWER ANY TWO:**

**(2 X 20 = 40)**

- 16 a) Explain about system architecture of GSM.  
b) Explain IEEE 802.11 medium access control layer.
- 17 a) Explain the following concepts in mobile IP (i) agent advertisement (ii) optimization  
b) Write about the mechanisms of Transportation control protocol.
- 18 a) List out three approaches of IP micro mobility and discuss their advantages & disadvantages.  
b) Discuss about Indirect TCP

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