



Reg. No. : .....

Name : .....

**Eighth Semester B.Tech. Degree Examination, October 2014  
(2008 Scheme)**

**Branch : Information Technology  
08.801 : MOBILE COMPUTING(F)**

Time : 3 Hours

Max. Marks : 100

**PART – A**

Answer **all** questions.

1. What is good code for CDMA ? Explain.
2. Differentiate slow hopping and fast hopping spread spectrum.
3. What are the advantages of having relatively small cells for cellular systems ?
4. Explain hidden and exposed terminal problems in the context of wireless LAN.
5. Explain GEO satellite system.
6. Explain BSS and ESS in IEEE 802.11.
7. What are the various power saving states available in Bluetooth device, to save battery power ? Explain.
8. Explain the terms like Home Agent, Foreign Agent, Care-of address in the context of mobile IP.
9. Explain HTTP and HTML. What advantages has the statelessness of HTTP ?
10. Explain WAP. (10×4=40 Marks)

**PART – B**

Answer **any one** question from **each** Module.

**Module – I**

11. a) Explain, with a neat diagram, the system architecture of a GSM system. 12  
b) Compare SDMA, FDMA, TDMA and CDMA. 8

OR

12. a) Explain the various medium access controls available in wireless communication systems. 12  
b) Explain MSISDN, MSRN, TMSI, IMSI in the context of GSM. 8

P.T.O.

**Module – II**

13. a) Explain Digital Audio Broadcasting and Digital Video Broadcasting. 10  
b) How synchronization and power management functions are performed by MAC defined in IEEE 802.1 ? 10

OR

14. a) Explain the Distributed Coordination Function (DCF) methods defined in IEEE 802.11. 12  
b) Explain the networking of Bluetooth devices. 8

**Module – III**

15. a) Explain the steps involved in the IP packet delivery and agent discovery among mobile nodes. 12  
b) What is WML ? Explain its features. What is the fundamental difference of WML compared to HTML ? 8

OR

16. a) Explain the various tunneling and encapsulation mechanisms used in mobile IP. 12  
b) Describe traditional TCP, Indirect TCP, Snooping TCP and Mobile TCP transmission. 8
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