



Reg. No. :

Name :

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

**Branch : Information Technology
08.801 : MOBILE COMPUTING**

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. What is good code for CDMA ? Explain.
2. How slotted Aloha is superior over classical Aloha ?
3. What are the four possible handover scenarios in GSM ?
4. Explain how hidden and exposed terminal problems are solved by MACA.
5. Explain GEO satellite system.
6. Explain BSS and ESS in IEEE 802.11.
7. Write notes on Digital Video Broadcasting.
8. Name the requirements of Mobile IP and justify them.
9. What are the advantages and disadvantages of fast retransmit/fast recovery scheme used in Mobile TCP ?
10. Explain WAP. **(10×4=40 Marks)**

PART – B

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

Module – I

11. a) Explain the sequence of various activities needed for Mobile Originated Call (MOC) and Mobile Terminated Call (MTC), with the help of diagrams, if needed. Explain the message flow for MTC and MOC. **12**
- b) Compare SDMA, FDMA, TDMA and CDMA. **8**

OR

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12. a) What is the need of multiplexing in communication systems ? Explain different multiplexing strategies. 8
- b) Explain the various medium access controls available in wireless communication systems. 12

Module – II

13. a) Explain the roles of MAC management of IEEE 802.11. 12
- b) 'HiperLAN 2 offers more features compared to basic IEEE 802.11'. Explain. 8

OR

14. a) Explain the protocol layers of Bluetooth. 12
- b) Explain IEEE 802.11 a and IEEE 802.b. 8

Module – III

15. a) Explain the various tunneling and encapsulation mechanisms used in mobile IP. 12
- b) Explain WWW system architecture. 8

OR

16. a) Explain the steps involved in the IP packet delivery and Agent discovery among Mobile nodes. 10
- b) Describe traditional TCP, snooping TCP and Mobile TCP transmissions in detail. 10
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