



(Pages : 2)

B – 2681

Reg. No. :

Name :



Eighth Semester B.Tech. Degree Examination, December 2016

Branch : Information Technology

08.801 : MOBILE COMPUTING

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. Describe the bearer services of GSM.
2. Describe Frequency Hopping Spread Spectrum.
3. Explain the handovers and its varieties with suitable diagrams.
4. Illustrate the term reverse tunnelling.
5. Explain the Bluetooth piconet and scatternet in detail.
6. Discuss the advantages and drawbacks of WLAN.
7. Describe Digital Audio Broadcasting with neat diagrams.
8. Discuss the various phases of HIPERLAN I EY-NPMA access scheme.
9. Write short notes on i-mode.
10. With neat diagram explain the entities of mobile IP. **(10×4= 40 Marks)**

P.T.O.



PART – B

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

Module – I

11. a) Compare and contrast the SDMA, FDMA, TDMA and CDMA medium access control techniques used in mobile communication. **10**
- b) Elaborate the GPRS architecture and data services. **10**

OR

12. a) Discuss the handover and localization features of GSM. **12**
- b) Explain UMTS architecture and its services with suitable diagrams. **8**

Module – II

13. a) Explain power management in IEEE 802.11 infrastructure networks and ad-hoc networks. **12**
- b) Explain the MAC mechanism used in wireless LAN. **8**

OR

14. a) Discuss the various aspects of WiFi standard with suitable diagrams. **10**
- b) Describe FAMA and DAMA multiple access techniques used in mobile communication. **10**

Module – III

15. a) How can DHCP be used for mobility and support of Mobile IP ? **10**
- b) Discuss the main goals of WAP. Explain the WAP architecture model. **10**

OR

16. a) Explain in detail how agent discovery and IP packet delivery taking place in mobile IP. **10**
- b) What are the enhancements required to increase TCP performance in wireless and mobile environment ? Explain any three classical TCP improvement methods in detail. **10**
-