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Roll No

IT - 702**B.E. VII Semester**

Examination, December 2013

Wireless and Mobile Computing**Time : Three Hours****Maximum Marks : 70**

- Note :** 1. Attempt any one question from each unit.
2. All questions carry equal marks.

Unit - I

1. a) Discuss the similarities and differences between a conventional cellular radio system and a satellite cellular radio system. 7
- b) Explain the cellular design techniques that are needed to improve coverage and capacity in cellular systems. 7

OR

2. a) Discuss the various effects of mobile radio propagation. 7
- b) Compare between SDMA, TDMA, FDMA and CDMA. used in wireless networks. 7

Unit - II

3. a) Discuss the different types of mobile services provided by GSM? Explain each in brief. 7
- b) Explain the architecture of GPRS? 7

OR

4. a) What is mobility management? Discuss its various functions. 7
- b) Explain briefly:- 7
 - i) TETRA
 - ii) UMTS

Unit - III

5. a) Describe the physical layer architecture of 802.11 standard. 7
- b) What are the advantages and disadvantages of using bluetooth based devices as a sensor network? Explain. 7

OR

6. a) Draw and explain HIPERLAN-2 protocol. Stack. 7
- b) What will be the impact on piconet in bluetooth devices are connected to mobile Units? Explain. 7

Unit - IV

7. a) Explain how routing is performed on ad.hoc networks. 7
- b) What do you understand by mobile IP? Discuss its basic operation. 7

OR

8. a) What is DHCP? How does DHCP support dynamic address allocation? 7
- b) Write short notes:- 7
 - i) Snooping TCP
 - ii) Mobile TCP

Unit - V

9. a) Differentiate between viruses and related threads and worms. 7
- b) What is firewall? Explain the design principle of firewall? 7

OR

10. Write short notes:- 14

- a) Intruders
- b) Password Management
- c) Trojan Horse
- d) Biometrics

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