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Question Paper Code : 11132

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Seventh Semester

Information Technology

IT 72 – MOBILE COMMUNICATION

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the types of Handoff?
2. How are Guard spaces realized between users in CDMA?
3. Give the format of an IEEE 802.11 PHY frame using FHSS.
4. What are the fundamental differences between wired networks and Ad-hoc wireless networks related to routing?
5. What are the security services offered by GSM.
6. Under what circumstances RA update procedure happened in GPRS?
7. What is Tunneling?
8. What are the drawbacks of Indirect TCP?
9. What is the use of user agent profile?
10. What is WTA?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the following cellular concepts in detail :
 - (i) Frequency reuses. (8)
 - (ii) Channel assignment. (8)

Or

- (b) Explain the TDMA with example for fixed and dynamic schemes used for wireless transmission. (16)

12. (a) Briefly discusses the system and protocol layer architectures and physical layer of IEEE 802.11. (16)

Or

- (b) (i) Briefly write a note on WiFi and WiMax. (8)
(ii) Discuss the role and propagation consideration for Wireless Local Loop. (8)

13. (a) (i) Discuss in detail about GSM system Architecture. (8)
(ii) With an illustration explain the four possible handover scenarios in GSM (8)

Or

- (b) (i) With neat sketch explain the protocol architecture of the transmission plane reference model of GPRS. (8)
(ii) Discuss about the attach and detach procedures in GPRS system. (8)

14. (a) (i) Explain about Dynamic Host Configuration Protocol. (8)
(ii) Describe the DSDV and dynamic source routing in Ad-hoc networks. (8)

Or

- (b) (i) Explain about the Snooping TCP and Fast Retransmit/Fast Recovery. (8)
(ii) Discuss about the TCP over 2.5 / 3G wireless networks. (8)

15. (a) (i) Explain any one of WAP protocol. (8)
(ii) Write a note on WAP Gateways. (8)

Or

- (b) (i) Describe about the WML and WMLscripts. (8)
(ii) Explain the following :
(1) iMode (4)
(2) SyncML. (4)