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Question Paper Code : 51564

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

Seventh Semester.

Information Technology

IT 2402/IT 72/10144 IT 702 — MOBILE COMMUNICATION

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How can wired infrastructure of GSM decide hand over operation?
2. Which TDMA scheme is suitable for satellite systems?
3. Why wireless LAN services are of lower quality than wired LAN?
4. What is the format of Frame control field of 802.11 MAC packet structure?
5. Give the block diagram of subscriber authentication in GSM architecture.
6. What is the functionality of GGSN?
7. What are the possible locations of tunnel end point in Mobile IP?
8. What should be the value of TTL field in the IP packet of agent advertisement? Why?
9. What are the capabilities of WMLScript?
10. What are the parameters of TR_Invoke.req primitive?

PART B — (5 × 16 = 80 marks)

11. (a) What is hidden and exposed terminal problem? Explain how Multiple Access with Collision avoidance scheme avoids hidden and exposed terminal problem. (16)

Or

- (b) (i) Explain briefly about cellular systems. (8)
- (ii) Explain with an example the behaviour of CDMA with the spreading using orthogonal codes. (8)

12. (a) Briefly explain the system and protocol architecture of IEEE 802.11 standard. (16)

Or

- (b) (i) Briefly explain about features and applications of adhoc Networks. (8)
(ii) Explain how power management is done in IEEE 802.11 infrastructure architecture. (8)
13. (a) Explain in detail the architecture of GSM. Also explain mobility management and handover. (16)

Or

- (b) (i) Briefly discuss in detail the GPRS procedures. (12)
(ii) Explain message flow for Mobile Initiated Call. (4)
14. (a) (i) Briefly explain DHCP client initialization procedure. (8)
(ii) Explain in detail Snooping TCP and its advantages and disadvantages. (8)

Or

- (b) (i) Briefly explain the Dynamic Source Routing. (12)
(ii) What is Transaction oriented TCP? Explain. (4)
15. (a) (i) Write a brief note on SyncML. (8)
(ii) Briefly explain about Wireless Application Environment. (8)

Or

- (b) Discuss in detail the Wireless Application Protocol architecture. (16)