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Question Paper Code : 31320

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

Seventh Semester

Computer Science and Engineering

CS 2402 /CS 72/10144 CS 703 — MOBILE AND PERVASIVE COMPUTING

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the different types of access mechanisms?
2. How is authentication done in GSM network?
3. How does a new Bluetooth device discover a Bluetooth network?
4. How is power conservation achieved in HIPERLAN?
5. Write any two factors that affect the performance of Adhoc networking.
6. What do you mean by Zone Routing Protocol?
7. Mention the features present in WSP/B in addition to that present in WSP.
8. State the applications of wireless telephony.
9. What is the need for interoperability in mobile device technology?
10. Give some application areas of Pervasive computing.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain in architecture of cellular mobile communication with neat diagram. (8)
(ii) Explain in connection establishment and frequency allocation in GSM. (8)

Or

- (b) How is data routing done in GPRS? In what aspect is data routing different from voice routing? State its limitations and applications. (16)

12. (a) Explain the IEEE 802.11 standard architecture and security. (16)

Or

(b) (i) Write notes on Hiper Lan. (8)

(ii) Compare WLAN, Blue tooth and WiFi with typical example.

13. (a) Compare and contrast the proactive and reactive routing in Adhoc networks. Explain with algorithmal example for each. (16)

Or

(b) Write notes on

(i) DHCP.

(ii) Multicast routing. (8+8)

14. (a) What are the various flavors of TCP available? Explain them in detail.(16)

Or

(b) (i) Explain WTA architecture. (8)

(ii) Explain about WAP agent profile. (8)

15. (a) Describe Device connectivity and Device management in pervasive computing. (16)

Or

(b) (i) Explain the pervasive web application architecture. (8)

(ii) Explain how PDA's are accessed from PC's vice versa and via WAP. (8)