Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 11155

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

Sixth Semester

Computer Science and Engineering

080230039 — MOBILE COMPUTING

(Regulation 2008)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Why can waves with a very low frequency follow the earth's surface? Can you use them for data transmission in computer networks?

2. How are guard spaces realized between users in CDMA?

3. What are the main problems when transmitting data using wireless systems that were used for voice transmission?

4. How much of the original GSM network does GPRS need?

5. How is mobility restricted using WLANS?

6. State the advantages of Bluetooth networks regarding power saving and security.

7. How does registration on layer 3 of a mobile node work?

8. State the difference between DSDV and DSR.

9. Can the problems using TCP be solved by replacing TCP with UDP?

10. Name key differences between WAP 1. X and i-mode.

PART B — (5 × 16 = 80 marks)

11. (a) Discuss about the various multiplexing scheme and compare the same.

Or

    (b) Write detailed notes on cellular wireless networks.

12. (a) Explain how localization and calling is performed in GSM.

Or

(b) With a neat diagram explain digital video broadcasting.

13. (a) Write elaborate notes on how power management in done in IEEE 802.11.

Or

(b) Discuss about HIPERLAN with suitable sketches.

14. (a) Explain the various methods of encapsulation in mobile IP.

Or

(b) Explain DSR and state the advantages and drawbacks.

15. (a) Discuss and compare traditional TCP and classical TCP.

Or

(b) Write detailed technical notes on mobile multimedia networks.

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