Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 13228

B.E./B.Tech. DEGREE END SEMESTER EXAMINATION, MAY/JUNE 2012.

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.   Differentiate between a high gain Omni-directional antenna and a directional antenna having the same gain?

2.   Can the value of cluster size be increased more than 7 to minimize the effect of co channel interference? Why?

3.   What is the significance of TMSI?

4.   What are the contents of EIT?

5.   What is the difference between the access point and a portal?

6.   Suppose the mobile phone units are equipped with Bluetooth devices. What impact will it have on the piconet?

7.   What do you mean by tunneling?

8.   Compare DSDV and DSR.

9.   Can the problems using TCP be solved by replacing TCP with UDP? Where could this be useful?

10. What are the primary goals of WAP forum efforts?

PART B — (5 × 16 = 80 marks)

11. (a) Discuss about the modulation schemes and compare the same. (16)

Or

(b) Write notes on cellular systems. (16)

12. (a) Explain the architecture of GSM with neat diagram. (16)

Or

(b) With neat diagram explain Digital audio broadcasting. (16)

13. (a) Discuss the protocol architecture of IEEE 802.11 with neat diagram. (16)

Or

(b) Explain the protocol architecture of Bluetooth. (16)

14. (a) Discuss about the entities, terminologies and IP packet delivery of mobile IP. (16)

Or

(b) Explain DSDV and state the advantages and drawbacks of the same. (16)

15. (a) Discuss about indirect TCP and state the advantages and drawbacks of the same. (16)

Or

(b) Explain the architecture of WAP. (16)

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