2008

M.Sc.

3rd SEMESTER EXAMINATION

Computer Science

PAPER—CS-2104

Full Marks : 50

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

(*Mobile Computing*)

Answer any *four* questions.

1. (a) What are the limitations of Mobile computing?

   (b) Briefly describe the architecture of Mobile computing with diagram.   3+7

2. (a) Describe in brief the cellular architecture in context to GSM.

   (b) What are the frequency bands for GSM Communication?

   (c) What is the role of Network Subsystem in the GSM architecture and also mention the distinct components of the NSS.   5+1+4

3. (a) What is CDMA?

   (b) Explain important features of CDMA systems. 2+8

4. (a) What is multiplexing?

   (b) Explain each multiplexing in short. 2+8

5. Write down the steps for dynamically configuring the IP address and other networks in the DHCP protocol.

   10

6. Explain the basic features of WLAN? What are the different collision problems in context to WLAN communication. Explain the techniques for their remedies.

   3+3+4

7. (a) What is Amplitude Modulation and Amplitude shift keying?

   (b) Give some applications of MANET. 4+6

8. Explain basic features of Bluetooth. 10

[Internal Assessment — 10]

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