Reg. No. : | | | | | | | | | | | |

Question Paper Code : Q 2288

B.E./B. Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Eighth Semester

(Regulation 2004)

Computer Science and Engineering

IT 1402 — MOBILE COMPUTING

(Common to B.E. (Part – Time) Seventh Semester Regulation 2005)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the main problems of signal propagation?

2. Give the use of SDMA.

3. Define GPRS.

4. What do you mean by DAMA?

5. What are the various versions of a physical layer defined in IEEE 802.11 standard?

6. List the three low power states to save battery power in a Bluetooth device.

7. What are the two kinds of entities in Mobile IP?

8. Define Generic Routing Encapsulation.

9. What are the key elements of the WAP specification?

10. What are the goals of WTLS layer?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss the advantages and disadvantages of cellular system with small cells. (6)

(ii) Explain briefly the types of spread spectrum techniques. (10)

Or

(b) (i) Compare TDMA, FDMA and CDMA. (6)

(ii) Explain the different types of phase shift key modulators. (10)

12. (a) Describe the system architecture of a GSM. (16)

Or

(b) (i) Write a note on LEO satellite System. (8)

(ii) Explain the transport mechanisms of DAB. (8)

13. (a) (i) Explain the basic structure of an IEEE 802.11 MAC data frame. (8)

(ii) Discuss briefly the HyperLAN2. (8)

Or

(b) Explain about the IEEE 802.11b standard. (16)

14. (a) (i) Discuss about the IP-in-IP encapsulation. (8)

(ii) Explain the Dynamic Source Routing. (8)

Or

(b) Explain the Dynamic Host Configuration Protocol. (16)

15. (a) (i) Explain the concept of Snooping TCP. (8)

(ii) Explain the WAE logical model. (8)

Or

(b) Explain the architecture of WAP 2.0. (16)