C 41674　　　　　　　　(Pages : 2)　　　　　　Name...............

Reg. No..................

EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, APRIL 2013

IT 09 801—MOBILE COMMUNICATION SYSTEMS

(2009 Admissions)

Time : Three Hours　　　　　　　　　　　　　　　Maximum : 70 Marks

Part A

Answer all questions.

1. Define Line-of sight communication.

2. Differentiate FDM and TDM.

3. What is meant by Handover ?

4. Mention the advantages of using the Wireless LAN technology.

5. State the goals of mobile IP.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Explain the working of the second generation CDMA.

7. Write a note on the signal encoding techniques.

8. Explain about the radio interface in telecommunication systems.

9. Discuss about the Logical Link Control in Wireless LAN.

10. With an example, explain the concept of tunnelling and reverse tunnelling.

11. Explain the WAP architecture in detail.

(4 × 5 = 20 marks)

Part C

Answer all questions.

12. Explain the working of Spread Spectrum in detail.

Or

13. Explain the principle of operation involved in Satellite Communications along with its parameters.

14. With a neat sketch, explain the GSM architecture.

Or

15. Write in detail about the working of the UMTS.

Turn over

16. Explain in detail about the working of the 802.11 protocol.

Or

17. Describe about the working of the Bluetooth technology.

18. With illustrations, explain the working of the dynamic source routing and hierarchical routing mechanism in Ad hoc routing.

Or

19. Explain the working of Mobile TCP along with its types.

(4 × 10 = 40 marks)