2008 ANNA UNIVERSITY
B.E/B.TECH SIXTH SEMESTER DEGREE EXAMINATIONS
MOBILE COMMUNICATIONS
(INFORMATION TECHNOLOGY)

DECEM- 2008

TIME-3HOUR
MARKS-100

ANSWER ALL QUESTIONS

PART A — (10 x 2=20 marks)

1. Define Trunking efficiency.

2. What do you mean by dropped call rate?

3. What is modulation?

4. Define spectra efficiency.

5. What are the basic propagation mechansms?

6. Define Tilting antenna effect.

7. What is Pacific Digital Cellular?

8. What are the elements of WAP?

9. List the benefits of a MEO constellation.

10. What are the features of DBS?

PARTB—(5x16=80 marks)

11. (a) (i) Explain the basic cellular system with neat diagram.

(ii) Discuss on the frequency reuse concept.
                    Or
(b) (i) Discuss the types of handoff techniques used in cellular system.

(ii) Write briefly about the cell splitting.

12. (a) Explain about the Gaussian Minimum Shift Keying (GMSK).
                    Or
(b) Compare the various modulation techniques.

13. (a) (i) Write note on smart antennas.

(ii) Discuss on the several outdoor propagation models.
                    Or
(b) Explain the various diversity techniques used in wireless communication.

14. (a) Explain the GSM system architecture with neat block diagram.
                    Or
(b) Explain the forward CDMA channel mbdulation process with diagram.

15. (a) Explain the architecture of a modernmobile satellite in detail.
                    Or
(b) Write notes on the following: (i) Orbcornmunication system (ii) VSAT