

22152

M. E. 2nd Semester (ECE) Examination, May-2010

WIRELESS MOBILE COMMUNICATION

Paper-MEEC-508

Time allowed : 3 hours *[Maximum marks : 100]*

Note : Attempt any five questions. All questions carry equal marks.

1. (a) Explain the basic cellular system. How it operates. 10
- (b) Explain the frequency reuse concept. 10
2. (a) Explain in detail the specification and working of GSM. 10
- (b) Write short note on cordless telephone system. 10
3. Explain the term interface. How many types of interference occur in cellular system ? 20
4. (a) Is a directional antenna useful for mobile communication ? Why ? 10
- (b) How do you improve the coverage and capacity of cellular system ? 10

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5. (a) Explain the term fading. What are the factors influencing small scale fading ? 10
- (b) Explain the mechanism of propagation. 10
6. (a) Write the short note on Hata Model. 10
- (b) Explain the following term with reference to CDMA. 10
- (i) Near-far Problem
- (ii) Graceful Degradation.
7. (a) Discuss in detail multipath characteristics of radio wave. 10
- (b) Differentiate between pure ALOHA and slotted ALOHA. 10
8. Write short note on :
- (i) IS-95 CDMA
- (ii) MAHO. 20