M. E. 2nd Semester (ECE) Examination, May–2015

WIRELESS MOBILE COMMUNICATION

Paper–MEEC-508

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

Note :   *Attempt any five questions.*

1. Discuss frequency reuse and channel assignment ? 20

2. Write short note on :

 (a) Paging System

 (b) Handoff strategies used in wireless communication.

      20

3. (a) Prove that for Hexagonal geometry and co-channel reuse ratio is given by $\theta = \sqrt{3N}$ where $N = i^2 + j^2 + ij$.   10

 (b) How a cell is made in a cellular system ?   10

4. (a) What do you understand by PN sequence ? Explain its properties.

 (b) Explain hard and soft hand off.   20

5. (a) Explain Okumara Model in detail.

   (b) Explain Hata Model in detail. 20

6. Explain in detail FDMA and TDMA and compare them.

   20

7. Explain GSM in detail.

8. Write short notes on :

   (a) Is–Gs

   (b) GPRs. 20