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Roll No

MCIT - 205
M.E./M.Tech., II Semester
Examination, December 2015
Mobile Computing

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Mention the various components of a cellular network and describe them briefly.
b) What is the difference between MIMO and SIMO radio channel?
2. a) Explain propagation over water a flat open areas in mobile communication.
b) Estimate the phase difference between a direct path and a Ground Reflected Path.
3. a) Design a directional antenna system for mobile communication.
b) How exploring co-channel interference areas in a system is done? Explain how.
 - i) To find the co-channel interference area from a mobile receiver.
 - ii) To find the co-channel interference area which affects a cell site.

4. a) What do you understand by perception of call blocking from the subscriber?
b) What do you understand by the term frequency management? Discuss various frequency spectrum utilization techniques.
5. Write short note on :
 - a) Soft handoff
 - b) Dropped call
6. a) Explain the channel coding and interleaving in GSM.
b) Differentiate between GSM and CDMA.
7. Write short notes on :
 - a) Foliage loss
 - b) Effects of lowering antenna height
8. Write short notes on :
 - a) Mobile IP and wireless mobile ATM.
 - b) Perception of call blocking from the subscribers.
