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Roll No

MCIT-205**M.E./M.Tech., II Semester**

Examination, June 2017

Mobile Computing*Time : Three Hours**Maximum Marks : 70*

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

1. a) Explain Delay spread and Coherence bandwidth. 7
b) Explain operation of the cellular mobile system from a customer's perception. 7
2. a) What is location management system? What is the difference between registration and call establishment? 7
b) How are guard spaces realized between users in CDMA? 7
3. a) Why is hexagonal cell shape preferred over square or triangular cell shapes to represent the cellular architecture? 7
b) Define following terms with suitable diagram : 7
i) Coverage call
ii) Propagation over water
iii) Cell

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4. a) Discuss design of an omnidirectional antenna system in the worst case. 7
b) What is Co-channel Interference? Explain with example. 7

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5. Explain the following term : 14
a) Frequency management
b) Non fixed channel
c) Frequency spectrum utilization
6. a) Determine the channel capacity for a cellular telephone area comprised of eight macrocells with 10 channels per cells. 7
b) Explain Cell site handoff and Intersystem handoff. 7
7. a) What is difference between Hard handoff and Soft handoff? Explain handoff strategies. 7
b) Explain architecture of GSM in detail. 7
8. Write a short notes : (Any Two) 14
a) Channel assignment
b) Foliage loss
c) Dropped Call Rate

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