

Roll No

MCIT-205

M.E./M.Tech., II Semester

Examination, December 2016

Mobile Computing

Time : Three Hours

Maximum Marks : 70

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

1. a) Describe the frequency hopping spread spectrum in detail.
b) What is cellular system? List the advantages and disadvantages of cellular systems.
2. a) What is co-channel interference and how it is optimised?
b) Explain various methods for improving coverage and capacity in cellular system.
3. a) What is mobility management? Describe two important aspects of mobility management.
b) Give a brief note on mobile agents.
4. a) Explain the basic propagation mechanisms.
b) Explain mobile to mobile propagation.
5. a) Discuss and design a directional antenna system for mobile communication.
b) What do you understand by perception of call blocking from the subscriber?

6. a) Define Handoffs. Why are handoffs needed? Explain
i) Delaying a handoff and its advantages
ii) Forced handoffs
b) Define dropped call rate. Derive to expression to calculate the same.
7. a) Define channel assignment and explain fixed channel assignment and non-fixed channel assignment algorithms.
b) Discuss and explain multicast routing protocols in detail.
8. Write short notes on any two
a) Mobile IP
b) Cell splitting
c) CDMA
