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

Examination, December 2017

**Mobile And Satellite Communication***Time : Three Hours**Maximum Marks : 70*

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

1. a) Explain the basic working concept of cellular mobile communication.  
b) Discuss about trucking and grade of service.
2. a) Explain about the concept of frequency reuse, reused distance and cluster size.  
b) Discuss about co-channel interference and system capacity.
3. a) Discuss about speech coding for wireless system applications and broadcast systems.  
b) Give brief introduction to radio channel characterization.
4. a) Discuss briefly about multipath propagation and co-channel interference.  
b) Discuss about the propagation effects such as scattering, ground reflection and fading.

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5. a) Give a brief on the modulation techniques for mobile communication.  
b) Explain the direct sequence spread spectrum technique.
6. a) Explain the MAC protocol 802.11 and its variants.  
b) Explain about MEO and LEO satellite systems.
7. Write short notes on any two of the following:
  - a) Hand off strategies
  - b) OFDM
  - c) Multiple access with collision avoidance.

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