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MEDC - 205

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

Examination, June 2014

Mobile And Satellite Communication

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

- 1. a) Discuss the channel assignment strategies.
 - Show that the cluster size depends only on the frequency reuse ratio.
- a) Derive the relation between co-channel reduction factor and frequency reuse factor.
 - b) Derive the expression for Trunking and grade of service.
- a) How to predict the value of a discrete time signal using linear prediction based analysis by synthesis (LPA's) coding.
 - b) Discuss about the Turbo codes used in wireless communication.
- a) Explain co-channel interference and how it can be reduced.
- b) Explain QPSK modulation technique.
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- . a) Explain the principle working of QAM modulator.
 - Discuss the working of frequency hopped spread spectrum technique.
- a) Discuss the working of OFDM system.
 - b) Write briefly about ETSI-HILARAN protocol.
- a) Explain briefly about MEO satellite system.
 - b) Discuss the principle concept of wideband CDMA.
- 8. Write short notes on any two of the following:
 - a) π/4 QPSK
 - b) Adaptive equalization
 - c) M-ary FSK

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