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Roll No

MEDC - 205

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

Examination, December 2015

Mobile And Satellite Communication

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- iii) Make suitable assumptions, if necessary.
- Discuss the techniques for Handoff assignment used in cellular mobile communication and compare them.
 - b) Mention the ways to improve cellular capacity and coverage and show how they are implemented.
- 2. a) What are the time domain and frequency domain speech coders? Explain any one type of speech coder of each category.
 - Define Co-channel interference and adjacent channel interference and discuss their effect on system capacity.
- Distinguish between large scale and small scale fading. Also explain log Normal shadowing in brief.
 - How Coherence BW and time are related with Doppler spread and delay spread. Discuss in brief.

- Derive the prob of error of BPSK system. How this can be improved.
 - Classify Diversity techniques and explain one way of implementation of each one.
- Discuss the link calculation used for satellite system. Elaborate each term used in link calculation.
 - Write down salient features of CDMA system. Also give application of the same.
- What is hidden and exposed terminal problem in wireless system and how it is overcome.
 - Discuss the CDMA CA techniques in brief and compare it with other multiple access techniques used in WLAN.
- Write down various features of different variants of 80211 protocol.
 - List out various features of Second Generation and Third Generation mobile system standard used in India.
- Write short notes on any two:
 - Equalisation and adaptive equalisation
 - Frequency reuse and reuse distance
 - GEO and MEO satellite system

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