Total No. of Questions:10]

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EC-602

B.E. VI Semester

Examination, June 2013

Cellular Mobile Communication

Time: Three Hours

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Maximum Marks: 100

Minimum Pass Marks:35

Note: i) Attempt one question from each unit.

ii) All questions carry equal marks.

Unit - I

- a) Discuss briefly about the different performance criteria of cellular mobile communication.
 - b) Discuss the concept of frequency re use.

OR

- a) With the help of block diagram explain the operation of cellular systems.
 - Discuss different hand off mechanisms in cellular system.

Unit - II

- 3. a) Explain the propagation of signals over water or flat open area.
 - Discuss the gain and pattern relationship of mobile antenna.

OR

 a) Determine the path loss from point to point prediction model. [2]

b) Discuss about unique situations of cell site antennas.

Unit - III

- a) Discuss about the real time co channel interference measurement at mobile radio transceivers.
 - Explain briefly about adjacent channel interference and near and far end interference. How can they be controlled.

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- 6. a) How to reduce co channel interference.
 - What are the effects of coverage and interference by applying power decrease.

Unit - IV

- a) Discuss about the nonfixed channel assignment algorithms.
 - b) Derive the drop call rate formula.

OR

- 8. a) What do you understand by traffic and channel assignment.
 - b) Explain about mobile assisted hand off and soft hand off.

Unit - V

- 9. Write short notes on the fc"
 - a) GSM architecture
 - b) TDD systems.

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- 10. Write short notes on the following:
 - a) CDMA system
 - b) PDC system

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