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EC - 7011

B.E. VII Semester

Examination, December 2013

Wireless Communication

Time: Three Hours

Maximum Marks: 70

Note: 1) All questions carry equal marks.

2) Attempt one question from each unit.

UNIT-I

1. Compute the transmitted power of a wireless noise limited system using link budget analysis.

OR

- 2. a) Discuss about the spectrum limitations for a wireless communication.
 - b) Analyse the relationship between cell radius and reuse distance for an Interference limited systems.

UNIT-II

- 3. a) Determine the expression of received signal for time invariant propagation along two paths.
 - b) Characterize a deterministic linear time variant system.

OR

- 4. a) Discuss temporal dependence of fading.
 - b) Discuss WSSUS model for characterizing the channel.

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UNIT-III

- 5. a) Discuss briefly about different narrow band models.
 - b) What are the requirements of underspread channel? Explain.

OR

- 6. a) Explain briefly about deterministic channel modeling methods.
 - b) How is the time domain measurements done over wireless channels.

UNIT-IV

- 7. a) Explain Binary Phase shift keying modulation used in wireless communication.
 - b) Discuss the methods for the computation of error probability.

OR

- 8. a) Explain offset Quadrature-Phase shift keying modulation.
 - b) Discuss the error probability in flat-fading channels.

UNIT-V

- 9. a) Explain the selective diversity method for combining the signals.
 - b) Discuss the working of zero-forcing equalizer.

OR

- 10. a) Explain the combining diversity method for combining the signals.
 - b) Explain the principle working of decision feedback equalizers.

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