(Following Paper ID and Roll No. to be filled in your Answer Book)							
PAPER 1D : 121653	Roll No.						L
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B.Tech.

(SEM. VI) THEORY EXAMINATION 2013-14 WIRELESS COMMUNICATION

e: 2 Hours

Total Marks: 50

Note: - Attempt all questions.

- 1. Attempt any two parts of the following: $(7 \times 2 = 14)$
 - (a) Explain practical link budget design using path loss model.
 - (b) What is multi-path fading? Comment on multi-path shape factor for fading wireless channels.
 - (c) Explain these terms:
 - (i) Reflection
 - (ii) Diffraction
 - (iii) Scattering
 - (iv) Propagation models

Attempt any two parts of the following: $(6\times2=12)$

- (a) What is the difference between DS-SS and FH-SS. What are the fundamentals of equalization?
- (b) What is equalizer in communication receiver? What are equalization techniques used in communication?
- (c) Explain the performance of DS-SS in detail.

- 3. Attempt any two parts of the following: (6×2=12)
 - (a) Explain frequency division multiplexing. What is FDMA?
 - (b) Compare TDMA and SDMA according to various characteristics.
 - (c) Comment on characteristics of speech signal. What is quantisation?
- 4. Attempt any two parts of the following: (6×2=12)
 - (a) Explain hand off strategies.
 - (b) Comment on improving coverage.
 - (c) What is the capacity in cellular system?