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**EEC028** 

(Following Paper ID and Roll No. to be filled in your Answer Book) PAPER ID : 121653 Roll No. 1 1 0 3 2 2 1 0 2 5

## B.Tech.

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

Time : 2 Hours

Total Marks : 50

Note :- Attempt all questions.

- 1. Attempt any two parts of the following : (7×2=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
- 2. Attempt any two parts of the following : (6×2=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.

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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?

Attempt any two parts of the following : (6×2=12)

(a) Explain hand off strategies.

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- (b) Comment on improving coverage.
- (c) What is the capacity in cellular system?

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