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Total number of pages:[2]

B.Tech. || ECE || 6<sup>th</sup> Sem

## Wireless & Mobile Communication

Subject Code: BTEC-603A

Paper ID:

2015

Batch

Reg

Time allowed: 3 Hrs

Max Marks: 60

### Important Instructions:

- All questions are compulsory

### PART A (10x 2marks)

Q. 1. Short-Answer Questions:

- (a) What is ZigBee?
- (b) Describe Concept of frequency reuse channels
- (c) What is Handoff?
- (d) Give features of FDMA.
- (e) What is Fading and how to overcome?
- (f) Differentiate between Cell splitting and Cell sectoring.
- (g) What do you mean by Spread Spectrum Multiple Access?
- (h) Enlist features of 4G wireless systems
- (i) Explain AMPS and ETACS.
- (j) Distinguish between Maximal ratio combining and Equal gain combining

### PART B (5x8marks)

Q. 2. Draw block diagram of basic cellular system. Also explain operation of CO1 cellular systems.

OR

Write short note on a) Bluetooth b) Cordless Telephone Systems CO1

Q.3. Discuss Co-channel interference reduction factor. Derive the expression for C/I in omni-directional antenna system. CO2

OR

Discuss the various handoff strategies used in cellular mobile communication CO2

Q. 4. Describe the Concept of diversity branches and signal paths. CO3

OR

Draw block diagram of RAKE Receiver and Also explain its elements. CO3

Q. 5. Describe TDMA. Enlist the features and advantages of TDMA

OR

CO4

Compare Pure ALOHA and Slotted ALOHA

CO4

Q. 6. Explain System Architecture of GSM. Also discuss its frame Structure.

OR

CO5

What is CDMA digital cellular standard (IS-95)? Describe its reverse channel

CO5