Roll No.

Total No. of Pages: 02

Total No. of Questions: 09

B.Tech.(ECE/ETE) (2011 Onwards) (Sem.-6) WIRELESS COMMUNICATION SYSTEM

Subject Code: BTEC-602 Paper ID: [A2316]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) What is the need guard period (space)?
- b) Write types of TCH channels of GSM.
- c) What are the features of FDMA?
- d) Define forward channel interference.
- e) What is multiple access?
- f) What are the two types of linear predictive coders?
- g) Define spatial diversity.
- h) What is the need of Gaussian filter?
- i) What is Flat Fading?
- j) What is Sectoring?

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SECTION-B

- 2. Write short notes on frequency reuse & channel assignment.
- 3. Explain in detail the small scale fading.
- 4. Explain speech processing in GSM.
- 5. Explain in detail equal gain combining.
- 6. Explain in detail packet radio protocols.

SECTION-C

- 7. Explain in detail the different techniques used to improve coverage & capacity of cellular system.
- 8. Explain in detail the TDMA & FDMA multiple access techniques.
- 9. Explain 4G mobile techniques.