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:

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

SECTION-A

1. Write briefly:

- a) List out the similarities and differences between Cordless systems and cellular systems.
- b) What is the impact of inaccurate power control on CDMA system?
- c) What is cell splitting?
- d) What are the most popular frequency reuse factors for AMPS, GSM and IS-95?
- e) How does GSM convert 260 (20 ms) bits of the speech packet into 456 bits of speech packet?
- f) List the advantages of digital cellular system standards.
- g) List the functions of MSC.
- h) Define Co-Channel.
- i) What is co-channel reuse ratio?
- j) Define diversity.

SECTION-B

- Compare the features of FDMA, TDMA and CDMA. 2,
- Explain in detail about the Factors influencing fading. 3.
- With neat diagram explain frequency reuse concept. Justify system capacity increases by 4. frequency reuse with necessary mathematical equations. ress. con
- 5. Write in detail about:
 - a) Bluetooth
 - b) Zigbee
- Explain in detail the frame structure for GSM

SECTION-C

- With suitable diagrams and explanation differentiate between the forward and the reverse 7. link in IS-95 standard.
- Explain in detail about the 4G Technologie 8.
- 9. Explain various diversity methods in detail.

MMM.S