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Total No. of Pages : 02

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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 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

Q1 Answer briefly :

- a. Compare flat fading and frequency selective fading.
- b. What is power delay profile?
- c. What is co-channel reuse ratio?
- d. Draw a cell cluster having a size of seven.
- e. What is Forward Channel?
- f. What is cellular system?
- g. Define TDMA.
- h. What is Paging system?
- i. What is LTE-Advance system?
- j. What is uplink frequency of GSM?



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SECTION-B

- 2. Explain the following packet radio protocols:
 - a. Pure ALOHA
 - b. Slotted ALOHA
- 3. Explain with diagram the dependence between cell cluster size and interference.
- 4. Explain in detail Maximal Ratio Combining Diversity method.
- 5. Write short note on Cordless telephone system.
- How cell splitting is used to increase the system capacity of cellular system? Explain. 6.

SECTION-C

- 7. Briefly explain about the Features of 4G and the challenges to be faced by it along with N.FirstRanker. possible solutions to overcome those challenges.
- 8. Write in detail about
 - a. AMPs
 - b. GSM
 - c. IS 95 (CDMA)
- 9. Compare TDMA, FDMA and CDMA multiple access techniques in detail.