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Roll No						

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech (ECE) (Sem.-8) WIRELESS COMMUNICATION SYSTEM & NETWORKS Subject Code : DE-2.2 Paper ID : [A0332]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks 1. each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. 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. Answer briefly :

- ercom a. What is frequency non selective fading?
- b. What is slow fading?
- c. W hat is frequency hopped spread spectrum (FHSS)?
- d. Define TDMA and SDMA
- e. What is pure ALOHA?
- f. Explain routing in wireless networks.
- g. What is common channel signalling?
- h. Define AMPS and ETACS?
- i. Explain Paging system in brief.
- j. What is reverse CDMA channel?



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SECTION-B

- 2. Explain the architecture and services of ATM network in detail.
- 3. Explain the concept of diversity and working of RAKE demodulator.
- 4. Explain the working and components of WLAN (IEEE 802.11). What are the hidden and exposed node problems in a WLAN? Discuss them briefly.
- 5. Explain Mobile network and transport layer protocol in detail.
- 6. How the capacity of cellular systems can be increased by cell splitting and segmentation?

SECTION-C

- 7. Explain services, channel types, speech processing techniques and features of GSM system.
- 8. What is receiver diversity? With the help of mathematical expressions, explain and compare maximal ratio combining and equal gain combining.
- 9. Write a short notes on :
 - a) Bluetooth technology and 4G System.
 - b) WLL architecture and technologies.