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Total No. of Questions: 08

M.Tech.(ECE) (E-III) (Sem.-3) WIRELESS & MOBILE COMMUNICATION

Subject Code: EC-520 M.Code: 36221

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- What are tunneling and grade of service? Discuss the impact of the above terms in designing mobile networks.
- a) Explain the ground reflection model for radio wave propagation.
 - Explain the effect of shadowing in the wireless propagation of waves.
- a) Explain the GSM traffic channels and its significance in wireless communication.
 - b) What are the various channel allocation schemes in cellular communication?
- Discuss the various advantages of CDMA, TDMA and FDMA. Explain each access technique in detail with neat diagram.
- What is GSM technology? With a neat block diagram explain the architecture of GSM in detail.
- What are the various spread spectrum coding scheme in wireless communication? Explain any one of them with neat block diagram in detail.
- What is the importance of location tracking mechanism in mobile communication? How will you implement location tracking mechanism in cellular system? Explain it with suitable example.
- a) Mention the security pitfalls in mobile networks with examples.
 - Explain the limitations of TCP for Adhoc networks in brief.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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