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**School of Engineering****B.TECH Electronics and Communication Engineering  
Mid Term Examination - Nov 2023****Duration : 90 Minutes  
Max Marks : 50****Sem V - G2UC503T - Wireless and Mobile Communication**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Describe the history and evolution of mobile radio systems. K2 (2)
- 2) Define cell splitting in cellular design. K1 (3)
- 3) Discuss the concept of channel assignment in cellular networks. K2 (4)
- 4) Explain the factors influencing interference and system capacity in cellular networks. K2 (6)
- 5) Evaluate different handoff strategies and their impact on system performance. K3 (6)
- 6) Design a basic cellular layout considering frequency reuse and cell sizes. K3 (9)
- 7) Assess the effects of interference and system capacity on network performance. K4 (8)
- 8) Investigate the advantages and disadvantages of different cell sectoring techniques. K4 (12)

**OR**

Compare and contrast different handoff strategies in terms of efficiency and reliability. K4 (12)