

MCA 5th Semester Mid Term Examination- 2022

Wireless Communication Network

MCA05E06

Full Marks: 20

Time: 1 Hour

[The figures in the margin indicate full marks for the question]

Group A: Very Short Questions (1 mark each)

(1X4=4)

- 1) AS What does path-loss gradient means?
- 2) What are the most popular frequency reuse factors for AMPS, GSM?
- 3) What is the difference between WAN and WLAN?
- 4) Why is agent advertisement important in Mobile IP?

Group B: Short Questions (2 marks each)

(2X4=8)

- 5) What is the difference between registration and call establishment in a cellular network?
- 6) Why is hexagonal cell shape preferred over square or triangular cell shapes to represent the cellular architecture?
- 7) Why does multipath in wireless channels limit the maximum symbols transmission rate?
- 8) Why is power control important in wireless networks?

Group C: Descriptive Questions (4 marks each)

(4X2=8)

- 9) Explain a general handoff procedure. Explain the entities involved with GSM as an example.
- 10) Explain why in fixed channel allocation techniques, neighboring frequency channels are assigned to different cells.