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## CS-8303 (GS) B.E. VIII SemesterExamination, June 2020 Grading System (GS) Wireless Networks (Elective - III) Time : Three Hours

Maximum Marks : 70

*Note:* i) Attempt any five questions. ii) All questions carry equal marks.

- 1. What should be a relationship between call arrival rate and service rate when a cellular system is in steady state? Explain clearly.
- 2. a) Discuss about the path loss modelling and signal coverage.
  - b) Discuss briefly about channel measurement and modelling techniques.
- 4. Why are multiple accesses equired in LAN technologies? Compare FDMA, TDMA and CDMA in terms of their ability to bandle groups of stations.
- 5. What do you mean by Doppler spectrum? How can we measure it?

OR

What is wireless network? Explain the characteristics of the wireless medium.

- 6. a) What do you understand by wireless ATM? Explain.
  - b) What is the fundamental principle and use of spread spectrum?
- 7. a) What is Bluetooth? Explain the architecture of Bluetooth system in detail with suitable diagram.
  - b) Write short note on IEEE802.15 WPAN network.
- 8. Write short notes on the following (any two)
  - a) Mobile Application protocols
  - b) 16 QAM
  - c) HomeRF
  - d) Cellular Topology

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