Atal Bihari Vajpayee Indian Institute of Information Technology & Management, Gwalior

IT307: Wireless Communication Technologies

Minor Examination (Session 2023–24)

Maximum Time: 1.5 Hours Max Marks: 25

Note: Attempt all questions. Neat sketches are expected wherever required.

- 1. Explain the basic differences between analog and digital wireless communication systems. (4 Marks)
- 2. Describe frequency reuse in cellular systems. Derive the expression for cluster size N. (6 Marks)
- 3. What are the major impairments in a wireless channel? Explain fading and shadowing with diagrams. (5 Marks)
- 4. Differentiate between FDMA, TDMA, and CDMA. Provide suitable examples. (5 Marks)
- 5. Write short notes on: (a) Bluetooth technology (b) Wi-Fi standards (5 Marks)