



विश्वजीवनमृतं ज्ञानम्

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

IT307: Wireless Communication Technologies

Minor Examination (Session 2024–25)

Maximum Time: 1 Hour

Max Marks: 20

Note: Answer all questions. Draw diagrams wherever appropriate.

1. Explain the concept of spectrum allocation in wireless communication. Why is efficient allocation important? (4 Marks)
2. Derive the expression for free-space path loss and explain the parameters involved. (4 Marks)
3. Describe the difference between slow fading and fast fading. Provide practical examples. (4 Marks)
4. Compare the channel access mechanisms of TDMA and CDMA systems. (4 Marks)
5. Write short notes on: (a) WiMAX (b) RFID applications (4 Marks)