



विश्वजीवनमृतं ज्ञानम्

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

IT012: Next Generation Networks

Minor Examination (Session 2023–24)

Maximum Time: 1.5 Hours

Max Marks: 25

Note: Attempt all questions. Draw suitable diagrams where necessary.

1. Explain the concept of Next Generation Networks (NGN). How do they differ from traditional telecommunication networks? (5 Marks)
2. What are the main features of IMS (IP Multimedia Subsystem)? Illustrate its architecture briefly. (5 Marks)
3. Define QoS (Quality of Service) in NGN. What mechanisms are used to ensure QoS? (5 Marks)
4. Discuss the role of MPLS (Multiprotocol Label Switching) in NGN. (5 Marks)
5. Write short notes on: (a) Softswitches (b) Convergence of fixed and mobile networks (5 Marks)