

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

IT012: Next Generation Networks

Minor Examination (Session 2024–25)

Maximum Time: 1.5 Hours

Max Marks: 30

Note: All questions are compulsory. Support your answers with examples.

1. Define Next Generation Networks. List and explain the essential features that distinguish NGN from legacy networks. (6 Marks)
2. Discuss the architecture and key elements of the IP Multimedia Subsystem (IMS). (6 Marks)
3. What are the major QoS parameters in NGN? How are these ensured in packet-switched environments? (6 Marks)
4. Explain the concept of Fixed–Mobile Convergence (FMC). Mention two real-world applications. (6 Marks)
5. Write short notes on any two: (a) NGN security issues (b) MPLS-based traffic engineering (c) Role of IPv6 in NGN (6 Marks)