

(3 Hrs.)

Total Marks: 80

Please check whether you have got the right question paper

- N. B. 1. Question No 1 is compulsory.  
2. Solve any three from remaining.

Q1. Solve any four (20M)

- How network connection is established in Bluetooth?
- Explain with diagram DWDM.
- What is VoFR?
- Draw NNI and UNI header format for ATM?
- What is proxy firewall?

Q2. a. Compare IEEE 802.15.1, IEEE 802.15.3a & IEEE 802.15.4 Technologies (10M)

b. Write in brief note on Radio Frequency Identification (10M)

Q3. a. Draw and explain SONET frame format. (10M)

b. Explain Frame Relay (FR) frame format in detail. (10M)

Q4. a. Explain B-ISDN reference model for ATM (10M)

b. Compare all ATM Adaptation layers: AAL1, AAL2, AAL3/4 and AAL5. (10M)

Q5. a. Compare Ubiquitous and Hierarchical Access and explain the steps or completing the access network design in detail. (10M)

b. What is SNMP protocol? Explain MIB in detail. (10 M)

Q6. Write a note on: Any Four (20M)

- Security Threats and Safeguards
- RMON
- NAT, SNAT and DNAT
- Wireless Sensor Networks
- Bluetooth Protocol Stack