Time: 3 Hrs.	**MM: 80**

[I] Very short answer questions.   **(10 * 2 = 20)**

Q1. What is networking?

Q2. What is a Client–Server Network?

Q3. Explain the TCP/IP Protocol Suite.

Q4. Explain Bridges in Networking.

Q5. What is MAC Addressing?

Q6. What is framing in Data Communication?

Q7. Explain the Different Types of Networks.

Q8. Describe the Various Transmission Modes.

Q9. Explain Error Correction Techniques.

Q10. Explain a Peer-to-Peer (P2P) Network.

[II]Long questions.   **(4 * 15 = 60)**

Q1. What is an OSI Reference Model? Explain each layer with a neat diagram.

Q2. What is Transmission Media? Explain Guided and Unguided Transmission Media with suitable examples.

Q3. What is Network Topology? Explain different types of topologies with neat diagrams.

Q4. Write short notes on the following:

    a) Routers
    b) Switches
    c) Error Detection Techniques