

(3 Hours)

Total Marks: 80

- N.B.: (1) Question No.1 is compulsory.
(2) Attempt any three questions from the remaining five questions.
(3) Make suitable assumptions wherever necessary but justify your assumptions.

- Q.1. a. Explain TCP/IP Reference Model. 05 M
b. Explain Sliding Window Protocol. 05 M
c. Explain different classes of IPv4 Addresses. 05 M
d. Explain Domain Name System 05 M
- Q.2.a. Explain ISO-OSI reference Model 10 M
Q.2.b. What is Network Address translation? Explain. 10 M
- Q.3.a. Briefly explain TCP header with a diagram. 10 M
Q.3.b. What are different UDP Applications? 10 M
- Q.4.a. Explain IPv6 Header with a diagram. 10 M
Q.4.b. Explain Fast Ethernet and Gigabit Ethernet. 10 M
- Q.5.a. Compare Lossy Compression and Lossless Compression. 10 M
Q.5.b. Explain HTTP Protocol. 10 M
- Q.6. Write short notes on (Any Two) 20 M
a. Congestion Control
b. VLAN
c. Routing Algorithms.
