Assignment No. 3

Subject : Computer Network

Unit 3: Network Devices

Q.1 Compare and contrast the functions and operational principles of various Network Devices (Hub, Switch, Router, Bridge, Gateway, Repeater, Modem) in a networked environment, highlighting their respective OSI layer of operation.

Q.2 Explain the significance of IP Addressing and Subnetting in the Network Layer, detailing the transition from IPv4 to IPv6, and the role of ARP in supporting IP communication.