PART – A (25 Marks)

1. Define QoS and list its parameters. (3)
2. Distinguish between “connection oriented” and “connection less” services. (3)
3. What are daemon processes? (2)
4. Define a socket. Write the range for standard ports. (2)
5. What is “tunneling”? (2)
6. What is a subnet mask? (3)
7. Define DNS. Differentiate between authoritative and cached records. (3)
8. Differentiate between POP3 and IMAP. (2)
9. Draw and explain the encryption model for network security. (3)
10. What are digital certificates? (2)

PART – B (50 Marks)

11. Explain the ISO-OSI model. Differentiate between OSI and TCP/IP models. (10)

12. a) Draw header format of IP protocol and explain its fields. (5)
    b) Differentiate between OSPF and BGP. (5)

13. a) What is ineted? Specify the need for it. Explain the steps executed by it. (7)
    b) Explain advanced socket system calls. (3)

14. a) Explain the architecture of WWW. (5)
    b) Explain architecture, services and protocols used by E-mail. (5)

15. a) Explain any public key algorithm in detail along with an example. (6)
    b) Explain IPSec in detail. (4)

16. a) Explain fragmentation mechanism as a means of Internetworking. (6)
    b) Explain how connections are established and released in TCP. (4)

17. Write short notes on :
    a) Streaming audio
    b) NAT

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