

709

Register No.:

April 2024

Time - Three hours
(Maximum Marks: 100)

- [N.B.]**
1. Answer all questions under Part-A. Each question carries 3 marks.
 2. Answer all the questions either (a) or (b) in Part-B. Each question carries 14 marks.]

PART - A

1. Differentiate intranet from extranet.
2. Which type of address can be recognized by Routers?
3. Name some services provided by the application layer.
4. Define Fast Ethernet.
5. What is subnetting?
6. Why do we need QoS?
7. Differentiate public key cryptography from private key cryptography.
8. What is PGP?
9. List out the levels of RAID.
10. What is Eaves Dropping?

[Turn over.....

PART – B

11. (a) Explain about any three topologies with necessary diagrams.

(Or)

(b) Explain about Twisted pair and Fiber optics transmission media with necessary diagrams.

12. (a) (i) Analyze the performance of 802.11a and 802.11n protocols. (7)
(ii) Explain about Token bus (802.4).(7)

(Or)

(b) (i) Explain about the different layers in Service Provider Networks for WAN networks. (7)
(ii) Explain about circuit switched networks. (7)

13. (a) Explain about IGMP and ARP protocols.

(Or)

(b) Name the Application Layer Protocols. Explain any two of them with neat sketches.

14. (a) (i) Explain the principles of network security.(7)
(ii) Explain the different types of attack.(7)

(Or)

(b) Explain RSA algorithm steps and write down its encryption and decryption processes (use two prime numbers $P=11$ and $Q=17$).

15. (a) Explain about Hackers Techniques.

(Or)

(b) Write short notes on
(i) Firewall. (7)
(ii) Intruder Detection systems. (7)
