

Register No.:

**1485**

**October 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 half duplex transmission mode with full duplex transmission mode.
2. List the functions of gateways.
3. Define protocol.
4. Define BNG.
5. Define dotted decimal notation. Give an example.
6. List out the two kinds of request supported by HTTP.
7. Write note on principles of security.
8. Define DDoS attack.
9. List the levels of RAID.
10. List the types of firewall.

[Turn over.....

**PART – B**

11. (a) Describe the different types of networks.

(Or)

- (b) (i) Discuss any three network devices. (7)  
(ii) Discuss about guided media for transmission. (7)

12. (a) Draw the layered architecture of the OSI model. Discuss the functions of each layer.

(Or)

- (b) (i) Compare the protocols 802.3, 802.4, and 802.5. (7)  
(ii) Explain the packet- switched networks. (7)

13. (a) Discuss the transport layer protocols of TCP/IP.

(Or)

- (b) Describe about any two application layer protocols.

14. (a) Explain the different types of attack.

(Or)

- (b) Describe the DES algorithm with an example.

15. (a) Describe about the advanced hacking techniques.

(Or)

- (b) Discuss about (i) IPSec (ii) IPS gateways.

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