Register No.:		
	Register No.:	

206

October 2023

<u>Time - Three hours</u> (Maximum Marks: 100)

- IN.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. List the components of data communication.
- 2. What are the three criterias necessary for an effective and efficient network?
- 3. Define Protocol. What are the key elements of Protocol?
- 4. List types of Ethernet.
- 5. Define IGP. What are its types?
- 6. What is HTTP? What are the two kinds of requests supported by HTTP?
- 7. Differentiate between Active attacks and Passive Attacks.
- 8. What is DDoS attack? How will you identify it?
- 9. What are the three classes of Intruders? Name them.
- 10. Write notes on firewalls.

PART - B

11. (a) What is network topology? Explain the different network topologies with its advantages and disadvantages.

(Or)

- (b) Write down the characteristics of transmission media. Explain time synchronization in computer networks.
- 12. (a) Explain the types of switching.

(Or)

- (b) Draw the layered architecture of the OSI model. Explain each layers.
- 13. (a) (i) Explain about ICMP.(7)
 - (ii) Explain about fault detection and isolation.(7)

(Or)

- (b) Explain with neat sketches, any two transport layer protocol of TCP/IP.
- 14. (a) (i) What is network security? Explain the principles of network security.(7)
 - (ii) What is attack? Explain the different types of attack.(7)

(Or)

- (b) Explain DES algorithm.
- 15. (a) Describe the hacking techniques.

(Or)

(b) Explain about (i) IPSec (7) (ii) IPS gateways (7)
