

Register No.:

854

April 2023

*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 and Extranet.
2. How does sky propagation differ from line-of-sight propagation?
3. Name some services provided by the application layer.
4. Give a brief note on IEEE 802.11ac.
5. What is subnetting?
6. What are the categories of IPv6?
7. Compare stream cipher with block cipher with an example.
8. Write a note on encryption techniques.
9. Illustrate the services provided by IPSec.
10. List the types of firewalls.

[Turn over.....]

PART – B

11. (a) (i) Explain client server and peer to peer networks. (7)
(ii) Explain about the different unguided transmission media with neat diagram. (7)

(Or)

- (b) (i) Discuss in detail about Mobile networks. (7)
(ii) Discuss in detail about data centre networks. (7)

12. (a) (i) Analyze the performance of 802.11a, 802.11b, 802.11g and 802.11n. (7)
(ii) Explain in detail about the functions of transport layer. (7)

(Or)

- (b) (i) Explain about the different layers in Service Provider Networks. (7)
(ii) Explain about Circuit-switched networks. (7)

13. (a) Explain about IGMP and its rules in detail.

(Or)

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

14. (a) What is attack? Explain the different types of attack in network security.

(Or)

- (b) Explain Diffie Hellman key exchange in detail with an example.

15. (a) What is meant by Intruder detection? Explain the different types of detection mechanisms.

(Or)

- (b) Explain in detail about the advanced hacking techniques.
