QP CODE: 25016884

25016884

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) SPECIAL REAPPEARANCE EXAMINATIONS, FEBRUARY 2025

Fifth Semester

B.Sc Computer Science Model III

CORE COURSE - CC5CRT05 - COMPUTER SECURITY

2022 Admission Only

88A89392

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Which are the critical characteristics of Information?
2. What is the difference between a denial-of-service attack and a distributed denial-of-service attack?
3. What are the two principal methods to defend cryptanalytic attack? How OTP achieves it?
4. Mention any one cryptographic tool and its function.
5. What are the security services that a digital signature offer?
6. Define intrusion detection.
7. Explain how IDPS helps in intrusion detection.
8. What is email security?
9. Discuss the importance SPD and SAD in IPsec architecture.
10. List any four threats which compromise the integrity on the web.
11. Name the four protocols used on top of SSL.
12. List any four keay features of SET.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain the History of Information Security.
14. Explain Caeser cipher with an example ,Express mathematically the relationship between Plain text and Cipher text.
15. With a suitable example, explain Playfair cipher.
16. With suitable block diagram , explain a symmetric cipher model.
17. List out the issues in implementing wireless NIDPS.
18. Explain the services provided by S/MIME.
19. Explain ESP Packet format.
20. Write shortnotes on Packet Filtering Routers.
21. Write shortnotes on Application Level gateway.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. With suitable examples, explain mono alphabetic and polyalphabetic ciphers.
23. Explain different password selection strategies.
24. Define Ipsec. Discuss the benefits of ESP over AH ? Compare tunnel mode ESP and trasport mode ESP.
25. Explain about firewalls and its types in detail.

(2×15=30)