

TB245130Q

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S.) EXAMINATION, FEBRUARY 2024
2021 ADMISSIONS SUPPLEMENTARY (SAY)
SEMESTER V - OPEN COURSE
BCA5D01AB18 - Security Threats and Trends

Time : 3 Hours

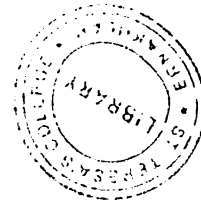
Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Define attack and risk.
2. Write down the importance of virus scanners.
3. Discuss Instant Messaging Worms.
4. What do you mean by Trapdoor?
5. Define Spyware.
6. What is botnet?
7. Write down the functions of Remote Access Trojan.
8. List the security implications of Trojans.
9. Explain Corrective controls.
10. Define Firewalls.
11. Who is Black Hat Hacker?
12. How to prevent phishing?



Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Write a short note on Macro virus and Polymorphic virus.
14. Explain the countermeasures of botnet attack.
15. How to identify whether the computer is affected by a malware?
16. Write a short note on access control in technical control.
17. Explain the administrative control to address RAT.
18. What are the best practices to adopt to control APT?
19. Explain the Incursion phase in APT.
20. Write down the control to address Trojans.
21. What are the controls to address worms.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Explain the various types of viruses and worms.
23. Explain the mode of operations of a. Trojan Horse (5 Marks) b. Spyware (5 Marks) c. Adware (5 Marks)
24. Explain the managerial, technical and procedural controls to address RATs and Rootkits.
25. a. Define and explain the stages of Advanced Persistent Threats. (5 marks) b. Explain the controls to address APT and information warfare. (10 marks)