

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024

2022 ADMISSIONS REGULAR

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. Explain Propagation phase.
2. Give two examples of boot virus.
3. List the phases of viruses during its lifetime.
4. Define worms.
5. What is DOS attack?
6. What is the aim of creating worms?
7. Define Covert channels.
8. Define Overt channel.
9. What is called Zero day vulnerabilities?
10. Expand APT.
11. Who is Black Hat Hacker?
12. Who is Grey Hat Hacker?

Part B

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

(6x5=30)

13. Explain procedural control to address virus and worms.
14. How to identify whether the computer is affected by a malware?
15. List the general practices to adopt to avoid attacks from Trojans.
16. Write a short note on access control in technical control.
17. Write a short note on the actions by the system users in technical control.
18. Explain the general best practices to control APT and information warfare.
19. Explain a. Preventive controls b. Detective controls c. Corrective controls.
20. Write down the procedural control to address malware and botnet.
21. Write down the control to address Trojans.

Part C

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

(2x15=30)

22. Explain the Phases of Virus infection with diagram and Characteristics of virus in detail.
23. Write a short note on a. IDS (5 Marks) b. Honeypot (5 Marks) c. Botnets (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)