

20. (a) Write the goals of intrusion detection system.

Or

- (b) Discuss the vulnerability in wireless network.

PART C — (3 × 10 = 30)

Answer any THREE questions.

21. Write short notes on
- (a) Breaches
  - (b) Confidentiality
  - (c) Integrity.
22. Explain in detail about Antiphishing with example.
23. Write a detailed note on security in the design of operating system.
24. What are the security issues available in database creation? Explain.
25. Illustrate the system architecture of cryptography in network security.

S.No. 6348

P 22 CSVAC 1

(For candidates admitted from 2022–2023 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Computer Science — Value Added Course

SECURITY IN COMPUTING

Time : Three hours

Maximum : 75 marks

PART A — (20 marks)

Answer ALL questions.

- I. (A) Multiple choice questions. (5 × 1 = 5)
1. Which one of the following can be considered as the class of computer threats?
- (a) Dos Attack
  - (b) Phishing
  - (c) Soliciting
  - (d) Both (a) and (c)
2. Which mechanism is used by worm process?
- (a) Trap door
  - (b) Fake process
  - (c) Spawn Process
  - (d) VAX process
3. Which one of the following systems cannot be considered as an example of the operating systems?
- (a) Windows 8
  - (b) Red Hat Linux
  - (c) BSD Linux
  - (d) Microsoft Office

4. The information that gets transformed in encryption is \_\_\_\_\_

- (a) Plain text                      (b) Parallel text  
(c) Encrypted text                (d) Decrypted text

5. In the computer networks, the encryption techniques are primarily used for improving the \_\_\_\_\_

- (a) Security                        (b) Performance  
(c) Reliability                    (d) Longevity

(B) Fill in the blanks:- (5 × 1 = 5)

6. \_\_\_\_\_ refers to the technique used for verifying the integrity of the message

7. Hackers usually used the computer virus for \_\_\_\_\_ purpose.

8. RBAC is abbreviated as \_\_\_\_\_

9. \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ are the objectives of network security

10. \_\_\_\_\_ refers to exploring the appropriate, ethical behaviors related to the online environment and digital media platform

II. Answer the following:- (5 × 2 = 10)

11. List the types of attackers.

12. Write the features of malware.

13. List the techniques to protect Operating system.

14. Compare reliability and integrity.

15. How service is denied?

## PART B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

16. (a) What are types of attackers? Explain.

Or

(b) Discuss about short and long term risk of security breaches.

17. (a) Write short notes on Trojans.

Or

(b) What are the tools available for system tuning?

18. (a) Write short notes on trusted operating system.

Or

(b) Discuss the requirement needed to protect object in operating system.

19. (a) What are the protection features of database from operating system?

Or

(b) Write short notes on

(i) Auditability

(ii) Element Integrity.