

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.Sc.CSc.(AI) - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - VI

24UAIET6B02 - Information Security

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. What are the different types of attacks in Information Security?
2. Explain the Symmetric encryption technologies.
3. Illustrate on Salami Attack, and how does it work in Cyber Security.
4. What are the different types of Access controls and define each.
5. Explain in detail about RSA algorithm with an example.
6. Classify the types of Non-Malicious program errors.
7. Explain Key Management and the role of Kerberos in a secure network environment.
8. Distinguish between PGP & MIME.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Explain about various non cryptographic vulnerabilities.
10. Illustrate on AES encryption and Decryption in detail.
11. Ascertain on what are Time-of-Check to Time-of-Use (TOCTOU) errors, and how can they be prevented.
12. Classify the types of Network Security Controls.
13. Appraise the five services provided by PGP.
