

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.Computer Science - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - VI

**24UCSET6A02 - Cryptography**

Total Duration : 1 Hrs.30 Mins.

Total Marks : 40

**Section B**

Answer any **TEN** questions ( $10 \times 2 = 20$  Marks)

1. What is Cryptography?
2. What is the primary goal of Symmetric Cryptography?
3. What role does a secret key play in symmetric encryption?
4. What is the difference between plain text and cipher text?
5. Define a cipher in Cryptography.
6. Give one example of a symmetric encryption algorithm.
7. What is real time Cyber threat detection?
8. Name two common types of cyber threats and explain it.
9. What does IDS stand for in Cyber security and explain its types ?
10. What is the primary purpose of threat intelligence?
11. Define the term "Zero-day attack".
12. What is the purpose of access control in cyber Security?

**Section C**

Answer any **FOUR** questions ( $4 \times 5 = 20$  Marks)

13. Explain the fundamental principle of Cryptography and how they contribute to secure communication.
14. Difference between Double DSA and Triple DSA.
15. Describe the working of RSA Encryption and Decryption.
16. How does the Feistel structure work in Symmetric Cryptography?
17. How do firewalls detect and mitigate SYN flood attacks?
18. Describe in detail about IP spoofing.

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