

**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.**

M.Sc. - END SEMESTER EXAMINATIONS APRIL - 2022

SEMESTER - III

18PCSCE3004 - Cryptography and Network Security

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. Explain Transposition techniques.
2. Write a note on DES.
3. Explain Euler's theorem.
4. Write in detail about Euclidean Algorithm.
5. Discuss about Public Key Cryptography.
6. Explain Diffie - Hellman key Exchange algorithm.
7. Explain Digital Signatures.
8. Discuss about Authentication requirements for hash functions.

Section B

Part A

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

9. Explain Substitution techniques in detail.
10. Briefly discuss about Chinese Remainder Theorem.
11. Explain AES in detail.
12. Discuss about secure hash algorithm(SHA).

Part B

Compulsory question ($1 \times 10 = 10$ Marks)

13. Explain RSA algorithm in detail.
