

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - VI Computer Science & Engineering : SUMMER : 2025
SUBJECT: CRYPTOGRAPHY & NETWORK SECURITY

Day : Thursday
Date : 22/05/2025

S-25596-2025

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

- Q.1 Explain various Transposition cipher Techniques in Details. (10)
- OR
- Q.1 Explain the following Terms: (10)
- i) Key Range and Key Size
 - iii) Possible types of attacks
 - ii) Steganography
- Q.2 Explain Blowfish Algorithm in detail. (10)
- OR
- Q.2 Explain Diffie-Hellman key exchange with suitable diagram and example. (10)
- Q.3 Explain Authentication Requirements and functions in detail. (10)
- OR
- Q.3 Explain: - Secure Hash Algorithm (SHA). (10)
- Q.4 Explain secure HTTP (HTTPS) protocol. What is the difference between HTTP and HTTPS? (10)
- OR
- Q.4 Explain Email security. What is SMTP? Explain. (10)
- Q.5 Explain secure electronic Transaction (SET) protocol in detail. (10)
- OR
- Q.5 Explain firewall design principles. (10)
- Q.6 Explain: i) Virtual elections ii) Single sign on (10)
- OR
- Q.6 What is wireless application protocol? (WAP). (10)

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