

**BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)**  
**B. Tech. Sem - VI CS&E : WINTER: 2025**  
**SUBJECT: CRYPTOGRAPHY & NETWORK SECURITY**

Day : Thursday  
Date : 20/11/2025

**W-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 if necessary.

**Q.1** Explain model for network securing with suitable diagram. What is symmetric and asymmetric cryptography? (10)

**OR**

Explain various types of security attacks.

**Q.2** Explain DES Algorithm in detail. (10)

**OR**

Explain RSA Algorithm in detail.

**Q.3** Explain MD5 Algorithm in detail. (10)

**OR**

What is Message Authentication Code (MAC) and HASH function, explain in detail.

**Q.4** Explain Secure Electronic Transaction protocol (SET). (10)

**OR**

Explain 3D secure protocol.

**Q.5** Explain the following: Intruders, virus and related threats in details. (10)

**OR**

Explain trusted system in detail.

**Q.6** Explain SSL (Secure Socket Layer) in web security. (10)

**OR**

Explain secure multiparty calculation and virtual elections.

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