

**BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)**  
**Computer Science & Engineering**  
**B.Tech.Sem - VI :SUMMER : 2023**  
**SUBJECT : CRYPTOGRAPHY & NETWORK SECURITY**

Day : Wednesday

Time : 02:30 PM-05:30 PM

Date : 24-05-2023

S-24329-2023

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 model for network security with suitable diagram. What is symmetric and asymmetric cryptography? (10)
- OR**
- Q.1 Explain various types of security attacks. (10)
- Q.2 Explain DES Algorithm in detail. (10)
- OR**
- Q.2 Explain RSA Algorithm in detail. (10)
- Q.3 Explain MD5 Algorithm in detail. (10)
- OR**
- Q.3 What is message Authentication code (MAC) and Hash Function, explain in detail. (10)
- Q.4 Explain Secure Electronic Transaction protocol. (10)
- OR**
- Q.4 Explain 3D secure protocol. (10)
- Q.5 Explain the following: Intruders, virus and Related threats in details. (10)
- OR**
- Q.5 Explain Trusted system in detail. (10)
- Q.6 Explain SSL (Secure Socket Layer) in web security. (10)
- OR**
- Q.6 Explain secure multiparty calculation and virtual election. (10)

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