

BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)
B.Tech.Sem - VI COMPUTER SCIENCE & ENGINEERING : SUMMER : 2024
SUBJECT: CRYPTOGRAPHY & NETWORK SECURITY

Day : Tuesday
Date : 21/05/2024

S-24329-2024

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.
- 4) Draw neat and labeled diagrams, wherever necessary.

Q.1 Explain following Transposition cipher Techniques: (10)
1) Rail-fence 2) single columnar 3) Multiple columnar

OR

Q.1 Explain model for network security with suitable diagram, what is symmetric & asymmetric cryptography? (10)

Q.2 Explain RC4 algorithm with suitable diagram. (10)

OR

Q.2 Explain RSA Algorithm in detail. (10)

Q.3 What is message Authentication? Explain with suitable diagram. (10)

OR

Q.3 Explain MD5 algorithm in detail. (10)

Q.4 Explain 3D secure protocol. (10)

OR

Q.4 Explain secure HTTP (HTTPS) protocol. What is the difference between HTTP and HTTPS? (10)

Q.5 Explain firewall design principles. (10)

OR

Q.5 Explain the following: Intruders, Virus and Related threats in detail. (10)

Q.6 Explain Cross-site scripting vulnerability. (10)

OR

Q.6 Explain SSL (secure socket layer) in web security. (10)

* * * * *