RAN-2511000903022006-D

RAN-2511000903022006 - D

S.Y.B.C.A. (NCF-NEP) (New) (Sem. - III) Examination December - 2025

Cyber Security and Data Protection (Honours)

Major - 2 : Cryptography and secure Communication (PR) (Paper - 304-04)

[Total Marks: 25

સૂચના : / Instructions	Seat No.:
(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book.	Student's Signature

SET - 4

Q. 1. Create a text file named secret_message.txt containing a short, confidential message. **[10]**
Using OpenSSL, encrypt this file with a strong symmetric algorithm like AES-256-CBC.
Choose a strong passphrase and save the encrypted output to a file named secret_message.enc.

Show decryption also.

Q. 2. Use Wireshark to capture HTTPS traffic and identify the SSL/TLS handshake process. **[10]**

Q. 3. Viva-voce **[05]**

———