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

Major - 2 : : Cyber Security And data Protection (Honours) (New)

304- 04 : Cryptography And Secure Communication (PR)

[Total Marks: 25

સૂચના : / Instructions

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.

Seat No.:

Student's Signature

SET - I

Q. 1. **Use OpenSSL to demonstrate Hybrid Encryption.** **(10)**
- Encrypt a file with AES-256-CBC using a random key
- Encrypt the AES key with RSA public key.
- Decrypt the AES key with RSA private key and recover the file.

Q. 2. Generate arandom key of 16 bytes and 32 bytes using OpenSSL. Save them to files. **(10)**

Q. 3. Viva-voce **(05)**

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