RAN-2511000903022006-E

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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

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

Seat No.:

Student's Signature

SET - 5

Q. 1. Generate an RSA key pair (public and private) using OpenSSL. Encrypt a message with the public key and decrypt with the private key. **[10]**

Q. 2. Generate a self-signed X.509 certificate using OpenSSL. **[10]**

- Display certificate details (subject, issuer, validity, public key).
- Verify certificate using the same public key.

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

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