RAN-2511000903022006-F

RAN-2511000903022006 - F

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 - 6

Q. 1. Show how integrity verification works(use SHA-256 to compute hash): **[10]**

1. Create a file, compute its hash.
2. Modify the file slightly, recompute the hash.
   Show how even a minor change affects the hash.

Q. 2. Use OpenSSL to encrypt and decrypt a text file with DES (Symmetric encryption). Show the command outputs. **[10]**

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

———