

**B.C.A. VI Semester
Session 2023-24**

NETWORK SECURITY

Paper : II (BCA-602)

Time : 2:30 Hours]

[Max. Marks : 70

Note : Attempt any *five* questions. All questions carry equal marks.

- Q. 1. (a) Explain the Various attacks.
(b) What is firewall ? How does it works ?
- Q. 2. (a) Discuss Digital Signature.
(b) What do you mean by Cryptography ? List Various techniques.
- Q. 3. (a) Specify the four categories of security threats.
(b) Why network need security ?
- Q. 4. (a) Compare Substitution And Transposition.
(b) Explain the Palyfair cipher and Vernam cipher in details.
- Q. 5. (a) Explain the OSI security architecture.
(b) Define integrity and non repudiation.

- Q. 6. (a) Explain Data Encryption Standard (DES) in detail.
(b) Explain RSA algorithm in detail with an example.
- Q. 7. (a) Explain (any *two*) of the following :
(i) ceaser cipher
(ii) Mono alphabetic cipher 3.one time pad cipher
- (b) Define the classes of message authentication function. Message encryption : The entire cipher text would be used for authentication. Message Authentication Code : It is a function of message and secret key produce a fixed length value. Hash function : Some function that map a message of any length to fixed length which serves as authentication.

<https://www.sdsuvonline.com>

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से