

13. Write short notes on any **three**:

- (a) SNMP
- (b) Transport Layer Security
- (c) Active vs Passive Attacks
- (d) Configuration management

D

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(20721)

Roll No.

BCA-VI Sem.

18026 (CV-II)

B.C.A. Examination, June-2021

COMPUTER NETWORK SECURITY

(BCA-601)

Time : 1½ Hours]

[Maximum Marks : 75

Note : Attempt **all** sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt any **two** questions. Each question carries 7.5 marks.

2×7.5=15

1. What is Kerberos?
2. Discuss the Role of the digital signatures in modern communication.

3. Explain Firewall Design principles.
4. What is the need of Authentication?
5. What is IP. See?

Section-B

(Short Answer Questions)

Note : This section contains **three** questions, attempt any **one** question. Each question carries 15 marks. $1 \times 15 = 15$

6. Explain the operations of secure socket layer in detail.
7. Discuss the RSA Algorithm with an example.
8. Compare secret key encryption & public key encryption. Also find which method gives the better complexity in terms of key distribution.

Section-C

(Descriptive Answer Questions)

Note : This section contains **six** questions, attempt any **two** questions. Each question carries 22.5 marks. Answer must be descriptive. $2 \times 22.5 = 45$

9. What is the purpose of S/MIME? Discuss the functionality of S/MIME. Also explain delta revocation.
10. What do you understand by virus? What are the various Intrusion detection approaches? Explain all.
11. What is the purpose of X.509 standards? How is an X.509 certificate revoked?
12. Define:
 - (i) PGP
 - (ii) Key Management
 - (iii) Model for Internetwork Security