

Solved
21-11-20
BCA VI sem Assignment.
Section A
What are the various security mechanisms?

1. What do you mean by brute force attack and intrusion?
2. Write the three dimensions of cryptographic systems.
3. What is the difference between substitution and transposition technique?
4. What is the difference between threat and attack?

Section-B

(Short Answer Questions)

Attempt any two questions out of the following three

questions. Each question carries $7\frac{1}{2}$ marks. Short answer is required.

$7\frac{1}{2} \times 2 = 15$

6. Explain secure socket layer in detail.
7. What are the properties that digital signature should have?
8. Define briefly the playfair cipher and Ceasar cipher.

Section-C

(Detailed Answer Questions)

Attempt any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.

$15 \times 3 = 45$

9. Explain IP security architecture. Show how ESP works in transport and tunnel mode.
10. What is RSA algorithm? Explain the generation of public and private keys and hence generation of ciphertext through RSA with the help of example.
11. What are the various types of firewalls? Explain each of them in detail.
12. What is configuration management and SNMPv3? Explain in detail.