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(20516)

Roll No.

BCA-VI Sem.

18026

B. C. A. Examination, May 2016

Computer Network Security

(BCA-601)

(New)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Attempt all the five questions. Each question carries 3 marks. Very short answer is required. 3x5=15

1. What are the various security mechanisms?

(2)

- 2. What do you mean by brute force attack and intrusion?
- 3. Write the three dimensions of cryptographic systems.
- 4. What is the difference between substitution and transposition technique?
- 5. 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 7½ marks. Short answer is required. 7½x2=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 Caesar 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. 15×3=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 cipher text 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.