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(20518)

Roll No.

BCA-VI Sem.

18026

B. C. A. Examination, May 2018

Computer Network Security

(BCA-601)

(New)

Time: Three Hours]

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[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.

 $3 \times 5 = 15$

- Specify the components of encryption algorithm.
- What are the roles of public and private key?

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3. What are the advantages and disadvantages of secret key encryption?

4. Difference between HTTP and HTTPS protocol.

5. Name four factors needed for a secure network.

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

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- 6. What are security protocols? Discuss five benefits of IPSec as a security protocol.
- Compare Substitution and Transposition cipher techniques.
- Explain the operation of Secure Socket Layer in detail.

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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

- What do you mean by firewalls? Discuss the need 9. of firewall in VPN along with its types.
- Discuss the role of digital signatures in modern 10. communication Also discuss the differences between digital certificates and digital signatures in authentication.
- What is Kerberos? Explain Kerberos 11. authentication system.
- Explain the type of encryption/decryption 12. method. Differentiate symmetric and asymmetric encryption.

- Compare and contrast (5*3): 13.
 - Cryptography and Cryptanalysis
 - SNMPV1 and SNMPV3
 - Active and Passive Attack. (c)

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