

Roll No. 0704029

BCA-601(N)

**B. C. A. (Sixth Semester)
EXAMINATION, May, 2018**

(New Course)

Paper First

COMPUTER NETWORK SECURITY

Time : Three Hours] [Maximum Marks.: 75

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section—A

Note : All questions are compulsory.

1. Define the following terms :

- (i) Kerberos
- (ii) Model for Internetwork Security
- (iii) Transport Layer Security
- (iv) PGP

Section—B

Note : Attempt any seven questions. Each question carries 8 marks.

2. Using a diagram explain all components of a

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3. What is Mono-alphabetic Cipher ? How is it different from Caesar Cipher ?
4. Distinguish between Symmetric and Asymmetric key cryptography.
5. Explain, why is SHA more secure than MD5.
6. What do you understand by a Virus ? What are the various intrusion detection approaches ?
7. Discuss firewall configuration system in detail. Mention the limitations of firewalls.
8. Explain briefly about the SNMPv3.
9. What do you understand by Web Security Threats ? What is the secure socket layer ?
10. What do you understand by IP Security Architecture ?

Section—C

Note : Attempt any *one* question. Each question carries 11 marks.

11. Explain the purpose of Owner Trust field, Key Legitimacy field and Signature Trust field maintained in the Public Key ring of PGP. Explain why owners Trust field is not enough to permit PGP to use the corresponding public key ?
12. What is the purpose of MIME ? Discuss functionality of MIME. Also explain delta revocation.

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