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Roll No. ....

Total Questions : 13 ]

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B.C.A. Vth Semester Examination, May-2019

**COMPUTER NETWORK SECURITY**

(BCA 501)

Time : 3 Hrs. ]

[ M.M. : 75

Note :- Attempt all the Sections as per instructions.

**Section-A**

(Very Short Answer Type Questions)

Note :- Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required.

1. Discuss the components of cryptography.
2. How is a secret key different from public key ?
3. Write down principles of security.

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Turn Over

4. Differentiate Encryption and Decryption.

5. What are the advantages and disadvantages of public key encryption ?

**Section-B**

(Short Answer Type Questions)

Note :- Attempt any *two* questions. Each question carries 7½ marks.

6. X.509 is a good security protocol. How this protocol is different from IPSec ?
7. Compare and contrast block cipher and stream cipher.
8. Explain SSL Protocol. List the services provided by SSL record protocol.

**Section-C**

(Long Answer Type Questions)

Note :- Attempt any *three* questions. Each question carries 15 marks.

9. What is Authentication ? What are the various authentication techniques used today for safe business-transaction online ?

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10. S/MIME and PGP are sister protocols. Study the two protocols and discuss the quality they share.
11. Explain Kerberos. What are the authentication requirements defined by Kerberos ?
12. Briefly explain the private and public key cryptography. Define public key cryptography with RSA.
13. Write notes on the following:
- (i) Repudiation
  - (ii) Intrusion detection
  - (iii) VPN
  - (iv) Digital certificate
  - (v) Firewall