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(Printed Pages 3)

(20517)   Roll No. ....

BCA-VI Sem.

18026

B.C.A. Examination, May 2017

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)

Note : Attempt **all** the **five** questions. Each question carries **3** marks. Very short answer is required. $3 \times 5 = 15$

1. How is digest created?   3

2. What is IP Sec?   3

P.T.O.

3. Describe how a virus is moved on the Internet?   3

4. Why security of web is necessary to protect data from unauthorized user?   3

5. Explain the term 'integrity'.   3

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions.

6. Explain about X.509 Certificate.   7½

7. What is Internet? Why do we need network security & how can it be provided?   7½

8. What is the need of Authentication? Explain various authentication functions.   7½

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Section-C

(Long Answer Questions)

Note : Attempt any **three** questions.

9. How does PGP create a Secure Network? Also explain PGP. **15**

10. Discuss different cryptographic algorithms used in S/MIME. Explain how S/MIME is better than MIME? **15**

11. What is Firewall? Describe how firewall can be used to protect the Network? **15**

12. Explain the SNMP Architecture in detail? **15**

13. What do you understand by cryptography? List the various cryptographic techniques with suitable examples. **15**

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13. Differentiate between : 5 each

    (a) Monoalphabetic and polyalphabetic cipher

    (b) Substitution and transposition technique

    (c) Block cipher and stream cipher.