CS - 7201

B.E. VII Semester

Examination, December 2012

Network & Web Security

(Elective)

Time : Three Hours

Maximum Marks : 100   *Minimum Pass Marks :35*

Note: *Attempt One question from each unit.*
All questions carry equal marks.

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UNIT - I

1. (a) Describe the model of Network Security.   10

   (b) Explain the 3 classes of intruder.   10

OR

2. (a) Discuss the three general approaches to deal with replay attacks.   10

   (b) Explain the categories of security assessments.   10

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UNIT - II

3. (a) Encrypt the message "We will meet tomorrow" using play fain cipher with a key 'STORY' Give rules for encryption.   10

   (b) With the help of diagram, explain the process of public key exchange with the help of certificate authority.   10

OR

4. (a) In S-DES, 10 bit key is 1010000010. Find the sub keys K_1 and K_2, if

   $P_{10} = 3\ 5\ 2\ 7\ 4\ 10\ 1\ 9\ 8\ 6$ and

   $P_x = 6\ 3\ 7\ 4\ 8\ 5\ 10\ 9$ 10

   (b) Explain elliptic curve cryptography briefly.   10

UNIT - III

5. (a) Explain the classes of message authentication functions.   10

   (b) What is digital signature? What are its requirements? Discuss direct digital signatures and arbitrated digital signatures.   10

OR

6. (a) Explain the various phases of SSL handshake protocol.   10

   (b) What is Kerberos? What are the design requirements of Kerberos? How does Kerberos work? What are its applications?   10

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UNIT - IV

7. Discuss the following : -   20

   (i) Email Viruses

   (ii) Digital immune system.

(iii) Phishing

(iv) Spoofing and sniffing

(v) Vulnerabilities

OR

8. (a) Briefly describe the types of viruses.   10

    (b) What is DDOS? Describe the 3 lines of defence against
         DDOS attacks.   10

UNIT - V

9. (a) Discuss the objectives, stages and steps forensic
         Investigation in tracking cyber criminals.   10

    (b) Explain briefly about Trusted Systems.   10

OR

10. Write short notes on the following : -   20

    (a) System Hacking Cycle.

    (b) E-mail spiders

    (c) Foot Printing

    (d) Computers Forensic