

**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 fair 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  
 $P_8 = 6\ 3\ 7\ 4\ 8\ 5\ 10\ 9$  10
- (b) Explain elliptic curve cryptography briefly. 10

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**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

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OR

10. Write short notes on the following : - 20

(a) System Hacking Cycle.

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(b) E-mail spiders

(c) Foot Printing

(d) Computers Forensic