

Total No. of Questions :10]

[Total No. of Printed Pages :3

Roll No

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.*

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

UNIT - II

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

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- (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

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

$$P_8 = 6 \ 3 \ 7 \ 4 \ 8 \ 5 \ 10 \ 9 \quad 10$$

- (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

UNIT - IV

7. Discuss the following : - 20

- (i) Email Viruses
- (ii) Digital immune system.

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- (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
