

Roll No

CS - 7101**B.E. VII Semester**

Examination, December 2015

Network and Web Security**Time : Three Hours****Maximum Marks : 70**

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each questions are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

1. a) What do you mean by computer security and cyber security?
- b) What is an intruder? Describe its classification.
- c) Explain Risk Management.
- d) Discuss various types of security threats.

OR

Discuss principles of security in detail.

Unit - II

2. a) What is substitution cipher? Explain with suitable example.
- b) What is Transposition Cipher? Explain with example.
- c) What is Steganography? How it differs from cryptography?

- d) Explain RSA algorithm with an example.

OR

Describe Diffie-Hellman key exchange algorithm. Calculate secret shared key if $n=17$, $g=13$, $x=3$ and $y=7$. Also explain Bucket Brigade Attack.

Unit - III

3. a) Define hash function.
- b) What is Message Authentication Code?
- c) Write short note on Digital Signature.
- d) Explain SHA-1 Algorithm.

OR

What are Kerberos? Write the working principle of Kerberos.

Unit - IV

4. a) What is spoofing?
- b) What is sniffing?
- c) Explain SQL injection with an example.
- d) What is virus? How it works? Explain its phases of execution.

OR

Write short note on any two:-

- i) Trojan Horse
- ii) Worm
- iii) Backdoor

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Unit - V

5. a) What is Hacking?
- b) What is Computer Forensics?
- c) Write short note Trusted System.
- d) What is Firewall? Explain its various types.

OR

What is secure electronic transaction? Explain its various components.
