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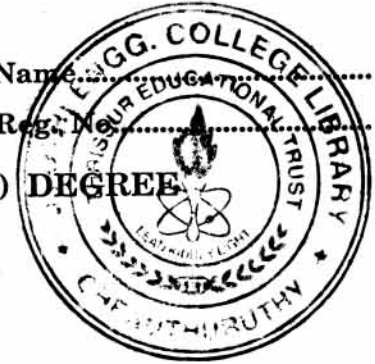
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Name.....

Reg. No.....

**SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, MAY 2012**

**CS 09 L01—INFORMATION SECURITY
(2009 Admissions)**



Time : Three Hours

Maximum : 70 Marks

Part A (Short Answer Questions (one/two sentences))

Answer all questions.

1. What is Rail fence Transposition Technique ?
2. What are the two approaches to attacking a cipher ?
3. Define the classes of message authentication function.
4. Define Kerberos.
5. What are the uses of VPN ?

(5 × 2 = 10 marks)

Part B (Analytical/Problem Solving Questions)

Answer any four questions.

6. Which parameters and design choices determine the actual algorithm of a feistel cipher ?
7. How is the S-box constructed ?
8. Explain multilevel security models.
9. Assume the client C wants to communicate server S using Kerberos procedure. How can it be achieved ?
10. Discuss operating system security.
11. Define a policy. What are the types of information security policies ?

(4 × 5 = 20 marks)

Part C (Descriptive / Analytical / Problem Solving Questions)

12. (A) Explain the OSI Architecture.

Or

(B) Explain DES Algorithm.

13. (A) Explain Authentication Functions.

Or

(B) Explain Intrusion Detection.

Turn over

14 (A) Discuss the protocols for secure communications.

Or

(B) Briefly explain Secure Socket Layer in detail.

15 (A) Describe next generation secure computing.

Or

(B) Illustrate software tamper resistance in detail.

(4 × 10 = 40 marks)