

Register Number.....

M.E., DEGREE EXAMINATIONS: NOV/DEC 2012

Third Semester

COMPUTER SCIENCE AND ENGINEERING

CSE589: Enterprise Information Security

Time: Three Hours

Maximum Marks: 100

Answer All Questions:-

PART A (10 x 2 = 20 Marks)

1. State the critical characteristics of information.
2. List the components used in security models.
3. Name the counter measures on threats.
4. Differentiate between threats and attacks.
5. Mention the benefits of risk management.
6. List the 3 types of risk mitigation plans.
7. Give the functions of a firewall.
8. What are the steps taken during Incident Response Plan?
9. What is a honey net?
10. Who is a tailgater? How to overcome this threat?

PART B (5 x 16 = 80 Marks)

11. a) Write short notes on:

- (i) NISSTC Security Model. (4)
- (ii) Balancing Information security and access. (4)
- (iii) Critical characteristics of information (8)

(OR)

b) What is SDLC? Illustrate the security of SDLC.

12. a) Explain in detail the different types of cryptanalytic attacks.

(OR)

b) Discuss in detail the Legal, Ethical and Professionalism issues during security investigation.

13. a) What is risk Management? State the methods of identifying and assessing risk management.

(OR)

b) Discuss in detail the process of assessing and controlling risk management issues.

14. a) (i) Compare and contrast the ISO 17700 with BS7799 NIST security models. (8)

(ii) Briefly explain the NIST SECURITY MODEL. (8)

(OR)

b) List the styles of architecture security models. Discuss them in detail.

15. a) (i) What is intrusion detection system? Explain its types in detail. (8)

(ii) Write short notes on scanning and analysis tools used during design. (8)

(OR)

b) (i) What is cryptography? Discuss the authentication models used in cryptography. (10)

(ii) Write notes on the control devices used in security design. (6)
