

## FACULTY OF INFORMATICS

B.E. 4/4(I.T.) I - Semester (Supplementary) Examination, June / July 2012

Subject : Information Security  
(Elective – III)

Time : 3 Hours

Max. Marks: 75

**Note:** Answer all questions of Part - A and answer any five questions from Part-B.

### PART – A (25 Marks)

1. Outline the types of data ownership with their responsibilities. (3)
2. State the differences between cyber terrorist and cyber. (2)
3. What is meant by software license infringement? (3)
4. Describe Risk mitigation. (3)
5. Define ISSP (3)
6. What role does physical design play in the sec SDLC? (2)
7. Comment on the responsibilities of key distribution centers. (2)
8. Differentiate between public and private key cryptography. (2)
9. Draw SSL protocol stack. (2)
10. How do you compute a Message Digest? (3)

### PART – B (5x10=50 Marks)

11. Briefly explain about the critical characteristics of components of an Information Systems. (10)
- 12.(a) Write about any five professional organizations of interest to Information security professionals. (5)  
(b) How is Risk assessed? (5)
- 13.(a) List the best practices for firewall configuration. (6)  
(b) What is DHZ? Is this an apt name for the function this type of subnet performs? (4)
14. Explain RSA algorithm with its computational aspects along with the required key generation algorithm. (10)
15. Write about the business requirements for SET and its key features along with its participants. (10)
16. Write about the following :  
(a) Controlling Risk  
(b) Ethical concepts in IS
17. Summarize  
(a) Sec SDLC phases  
(b) Attack replication vector