

Roll. No									
----------	--	--	--	--	--	--	--	--	--

B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2014
COMPUTER SCIENCE AND ENGINEERING
SEVENTH SEMESTER
CS 472 – SECURITY IN COMPUTING
(REGULATIONS 2004)

Time: 3 hr

Max.Mark:100

Answer All Questions

Part – A (10 X 2 = 20 Marks)

1. State the advantages of Hill Cipher?
2. What is nonce and time stamp? List their roles in authentication.
3. What are non-malicious program errors?
4. Differentiate threats and virus.
5. What is assurance in trusted OS?
6. Differentiate between trusted and un-trusted operating system?
7. State the purpose of distributed intrusion detection system?
8. List the various threats in network security.
9. What are the benefits of Risk analysis?
10. What do you mean by software failure? Give an example.

Part – B (5 X 16 =80)

11. A) i. With neat diagram, explain the Simple Data Encryption Standard and its features (8)
ii. Discuss about the symmetric and asymmetric encryption with an example (8)
12. A) i. Define access control list and capability and explain their relative strength and weaknesses. (8)
ii. Describe SSL protocol stack with suitable diagram (8)
(OR)
B) i. Explain the ways of preventing non-malicious program errors (8)
ii. Briefly explain how would you incorporate control against program threats? (8)
13. A) i. Describe authentication header mode of IP security with suitable sketch. (8)
ii. Distinguish among vulnerabilities, threats and control? (8)
(OR)
B) With neat diagram explain any two security models in trusted operating system (16)
14. A) i. Explain any two types firewall and its design issues (8)
ii. With suitable example, specify how you would secure e-mail (8)
(OR)
B) Elaborate your views in multilevel database and multilevel security is achieved (16)

15. A) Explain the purpose of an organization's security policy and what steps should be considered for its development. (16)

(OR)

B) Explain the following with an example

i. Computer Crime and its ethical issues (8)

ii. Risk Analysis in incorporating security (8)