

FACULTY OF ENGINEERING

B.E. 4/4 (CSE) I-Semester (Supplementary) Examination, June / July 2011

Subject : Information Security (Elective-I)

Time: 3 Hours

Max. Marks: 75

Note: Answer all questions from Part-A and answer any Five questions from Part-B.

PART - A (25 Marks)

- 1. What are different classes of data users?
- 2. What is a spoofing attack?
- 3. What is due care?
- 4. What is risk appetite?
- 5. How does a packet filtering firewall work?
- 6. What is Foot printing?
- 7. What is the difference between symmetric and asymmetric crypto algorithms?
- 8. How can we guarantee secrecy and authentication in public key crypto systems?
- 9. What are desirable characteristics of a hash function?
- 10. What are different components of SSL protocol stack?

PART - B (50 Marks)

- 11. Discuss in detail the different important characteristics of information from the information security point of view.
- 12. List out and discuss in detail the different types of threats that exist for an information system.
- 13. What are the different types of Intrusion Detection Systems that you can use in the design of an information security system? Discuss in depth.
- 14. Discuss the following aspects of contingency planning:
 - a) Incident response
 - b) Disaster recovery
 - c) Business continuity
- 15. Describe in detail how the RSA algorithm works. Also discuss its different applications.
- 16. Describe the working principle of the SHA-1 algorithm in detail.
- 17. What is the main motivation behind the proposal of the SET protocol? Describe the protocol in detail.