

**FACULTY OF ENGINEERING**

**B.E. 4/4 (CSE) I – Semester (New) (Supplementary) Examination, July 2014**

**Subject : Information Security**

**Time : 3 hours**

**Max. Marks : 75**

**Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.**

**PART – A (25 Marks)**

- 1 What do you understand by balancing security and access?
- 2 Describe briefly Spoofing and phishing attacks.
- 3 What is Benchmarking?
- 4 Discuss the concept of defense in depth.
- 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 Using a diagram, show how both confidentiality and authentication can be provided in a single scheme using public key/private key system.
- 9 How is an organizational policy different from a law?
- 10 Draw and identify the different components of the 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 a) Write briefly about scanning and analysis tools.  
b) What are the different types of Intrusion Detection systems that you can use in the design of an information security system?
- 14 Discuss the following aspects of contingency planning :  
a) Incident response                      b) Disaster recovery                      c) Business continuity
- 15 a) Discuss how Kerberos works in authenticating a remote login.  
b) What is a VPN? Briefly discuss the two approaches using which a VPN can be implemented.
- 16 a) Starting from the CISO, list all the staffing positions in the implementation of the security function and discuss their responsibilities.  
b) Discuss briefly the security considerations for non employees.
- 17 Write short notes on :  
a) Symmetric and asymmetric cryptography  
b) Web security  
c) Security certification and accreditation

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