

FACULTY OF ENGINEERING

B. E. 4/4 (CSE) I – Semester (Old) Examination, July 2010

Subject : **Information Security**
(Elective-I)

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. What three principles are used to define the C.I.A. triangle?
2. What is the difference between virus and worm ?
3. Why do organizations need a password policy for choosing passwords ?
4. What is HIPPA ?
5. Why security clearance structure is important in data classification ?
6. What is defense in depth ?
7. What is message digit ?
8. What is timing attack in RSA?
9. What is SSL session?
10. What is a Stream cycle ?

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PART – B (5x10=50 Marks)

- 11.(a) Who is involved in the security development life cycle ? Who leads the process?
(b) What is the difference between denial-of-service attack and a distributed denial-of-service attack ? Which potentially more dangerous and devastating? Why.
- 12.(a) Why ethical I stress are important for I.S. professionals?
(b) How does due diligence differ from due care ? Why are both important ?
- 13.(a) What are different deliverables in Risk identification and assessment ?
What is their purpose?
(b) What is Risk appetite ? Explain why risk appetite varies from organization to organization?
- 14.(a) What is Issue-specific security policy? What are different approaches towards creating and managing them within an organization ?
(b) What role does a bastin host play in the implementation of a screened-host firewall.
- 15.(a) Define confusion and diffusion in the construct of crypto analysis . Discuss a clostic cipgh that employs only confusion.
(b) Explain the modes of operation in DES.
- 16.(a) Explain the working of SSL Record protocols .
(b) Describe the major steps in SET.
17. Write short notes on the following :
(a) Active and Passive attacks
(b) Intrusion Detection systems