Code No.: 3172

FACULTY OF INFORMATICS

B.E. IV/IV Year (IT) I Semester (Main) Examination, December 2010

INFORMATION SECURITY

(Elective - II)

lim	ie:	[Max. Marks : 7	5
		Part AENGG (March : 25)	
		Answer all question from Part A. Answer any five questions from Part B.	
1.		nat are the activities performed during the maintenance phase of the Sec LC?	3
2.	Lis	t the components of an Information System.	2
3.	Dif	ferentiate with an example between a law and ethic.	2
4.	En	umerate the conditions under which a policy can be enforced.	3
5.	In	the context of information security, explain the significance of a DMZ.	3
6.	proceeding proceeding to a		2
7.	Differentiate between a monoalphabetic & Polyalphabetic substitution ciphers. 2		
8.	Dis	scuss the implementation of digital signatures.	3
9.	Wh	nat is a message digest?	2
10.	Но	w is SSL used to enhance the level of security of Internet communications?	3
		Part B — (Marks :50)	
11.	(a)	Discuss the various types of deliberate software attacks designed to damage destroy, or deny service to target systems?	, 6
	(b)	How can the threats proved by social engineering to information security be overcome.	4
12.	Dis	scuss the various risk control strategies in an organization.	0
13.	(a)	With the help of a diagram discuss the security architecture of an organization that incorporates defence in depth.	6
	(b)	Discuss the use of intrusion detection systems to enhance the level of information security protection.	4

- 14. Explain in detail the RSA algorithm and its working.
- 15. (a) How does SET provide protection?
 - b) Explain the operation of SHA-1 algorithm in the implementation of a message desert.
- 16. (a) Explain the inadequacy of DES as an encryption algorithm.
 - (b) Discuss how Public Key infrastructure enables the protection of information assets.

PRABA

- 17. Write short notes on (any two):
 - (a) AES
 - (b) Firewalls
 - c) Balancing of Security of Information access.