Code No.: 6402/N

46.0

FACULTY OF ENGINEERING

B.E. IV/IV (CSE) I SEMESTER (New) (Main) Examination, Nov./Dec., 2009 INFORMATION SECURITY (ELECTIVE – I)

Time: 3 Hours] [Max. Marks: 75 Note: Answer all questions from Part - A. Answer any five questions from PART - A [25 Marks] Differentiate between a threat and an attack. 1. (3 M)2. What are the characteristics of information? (2 M)3. Define a firewall and its characteristics (3 M)4. List and define security services. (2 M)5. Define a cryptographic hash function and an iterated cryptographic hash function. (3 M)6. List the services provided by SSL. (2 M)7. What do you mean by security threats? (2 M)8. Differentiate between passive and active security with attacks examples. (3 M)9. What is Data Confidentiality? (2 M)10. What is Traffic analysis? State with an example. (3 M)PART - B [50 Marks] What is the need for security and write about security investigation 11. phase? (10 M)12. (a) Explain about the design of SDLC. (6 M)(b) What is intrusion? (4 M)13. Explain about the different types of firewalls. (6 M)What is the role of hash function in security? (4 M)(This paper contains 2 pages) 1 P.T.O.

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14.	Ехр	lain in detail about DES and triple DES algorithms.	(10 M)
15.	(a) (b)	Explain chosen plain text attack and a known-plain text attack. How many exclusive – or operations are used in DES cipher does DES function need an expansion permutation?	? Why (6 M)
16.	Exp	ain about MD-5 in detail.	(10 M)
17.	(a) (b)	What is a digital signature? Explain a blind digital signature scheme.	(5 M) (5 M)