

Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India (Autonomous College Affiliated to University of Mumbai)

End Semester Examination

Nov 2017

Max. Marks: 100

Duration: 3 hr

Class: B.E

Semester:VII

Course Code: CPC 702 Name of the Course: Cryptography & System Seawit Branch: Computer

Instruction:

(1) All questions are compulsory

(2) Draw neat diagrams

(3) Assume suitable data if necessary

Q No.		Max. Marks	CO
Q.1 a	Explain in detail Public key infrastructure?	10	CO4
	OR		
Q.1 a	What is digital signature? Explain Elgamal Digital signature al-	10	CO4
Q.1 b	gorithm? Use the playfair cipher to encrypt the message " attack cancelled on Monday, wait for next message" Keyword used is " morning "	05	CO1
Q.1 c	on Monday, wait for next message Reyword used is moraling Explain non malicious program errors with examples?	05	COS
	OR		
010	Write a note on Operating System Security ?	05	CO
Q.1 c Q.2 a	Explain transposition cipher in detail?	05	CO
4.2			
	OR		
Q.2 a	What is crypt analysis? Explain Different Crypt analysis attacks?	05	CO
Q.2 b.	Explain packet sniffing and packet spoofing ?Explain Session hijacking attack?	10	CO
Q.2 c	What is Firewall? Explain different types of firewall?	05	CO
Q.3 a	How a key is shared between two parties using Diffie Hellman Key exchange algorithm with example? What is the drawback of this algorithm?	10	CO
	OR		
Q.3 a	In RSA System the public key(e,n) of user A is defined as (7.187). If the plaintext is P= 88. Decrypt plaintext?	10	CO
Q.3 b	Is SHA is Secured? Explain secure hash algorithm in detail?	10	CO
Q.4 a	What are the disadvantages of symmetric key cipher? Explain in detail working of AES Cipher in detail?	10	CO

Q.4 b	Write in breif about i. Deniel of Service ii. CAST- 128	10	CO2
Q.5 a	How Security to transport layer is provided using SSL?	10	CO5
Q.5 b	Explain SET protocol for mobile payment in detail	10	CO5
	OR		
Q.5 b	How authentication and confidentiality are achieved using IPSec?	10	CO5

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