- Emptography sem. V IT

University of Mumbai

Program: Information Technology (CBCGS)

Curriculum Scheme: Rev 2016 Examination: TE Semester V

Course Code: 1T01225 and

Course Name: 32404 // Cryptography & Network Security

Time: 2 hours

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compuls and carry equal marks		
1.	Number of rounds in DES is		
Option A:			
Option B:			
Option C:			
Option D:			
2.	if e=3 and n=35 and ciphertext is 22 generated by Bob what is the corresponding plaintext using cyclic attack		
Option A:			
Option B:	5		
Option C:			
Option D:	9		
3.	In the following messages which one can be used to preserve the integrity of a docur or a message.		
Option A:	Message summary		
Option B:	Message digest		
Option C:	encrypted message		
Option D:	Plaintext		
4.	What is the number of round computation steps in the SHA-256 algorithm?		
Option A:	80		
Option B:	76		
Option C:	64		
Option D:	70		
5.	Hashed message when ennerypted is called as		
Option A:	Physical signature		
Option B:	digital signature		
Option C:	electronic signature		
Option D:	handwritten signature		
орион Б.	nanewitten signature		
6.	Needham-Schroeder Proteco forms the basis for		
Option A:	DES DES		
Option B:	KERBOSE		
Option C:	RSA		
Option D:	AES		
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7.	Which of the following is the valid key size of RSA used for Signature scheme		
Option A:	448		
Option B:	568		
Option C:	1296		
Option D:	1024		

Option A:	Application	
Option B:	Transport	
Option C:	Data link	
Option D:	Network	
-		
9.	Packet Filter Firewall is also cal	led as
Option A:	Policy filter	
Option B:	Analysis filter	
Option C:	Policy router	
Option D:	Screening filter	
10.	In Kerberos,	shares a unique password with every user in the
	system.	그 - 등 경영선생 역정성생활 시리선(성영성) [1]
Option A:	Authentication server	
Option B:	Ticket granting ticket	
Option C:	Ticket granting server	
Option D:	File Server	

Q2 (20 Marks)	Solve any Four out of Six 5 marks each	
A	Define ARP spoofing with example. Compare wwith IP spoofing.	
В	What is significance of digital signature on digital certificates? Justify	
С	Compare and contrust HMAC and CMAC.	
D	SHA provides better security than MD Justify	
Е	Explain IPSec	
F	Explain Stegnography	

Q3 (20 Marks)	Solve any Two Questions out of Three 10 marks each
A	Explain Transpositional ciphers with illustrative example.
В	What are block cipher modes. Describe any two in details
C	Explain different types of DOS attacks.

Q4 (20 Marks)		
Α	Short notes on any Two	5 marks each
; i , i , i , i , i , i , i	SSL/TLS	
ii.	Email Security	
iii.	Port scanning	
В	Attempt any one	10 marks
i.e. s i.e. s i.e. s i.e. s	Explain Kerbose in details	
ii,	What is firewall? Explain different types of firewalls and list their advantages.	