Seat N	lo:	 -		Enrollment No:		
			PARUL UNIVERSITY			
			FACULTY OF IT & COMPUTER SCIENC	${f E}$		
a	,	_	BCA Summer 2018 – 19 Examination	D 4 00/07/2010		
Seme Subje			e: 05101304	Date: 08/05/2019 Time: 10.30 am To 1.00 pm		
Subj	ect l	Nam	e: Network Security	Total Marks: 60		
2. Fig 3. Ma	l que gure ake	estic es to suit	ons are compulsory. the right indicate full marks. able assumptions wherever necessary. question on new page.			
Q.1			r the followings.	(05)		
Α.			short notes. fine: Confidentiality	(05)		
			fine: Cryptography			
			fine: Digital Signature			
			fine: Trojan Horse			
			fine: Denial of service			
В.			le choice type questions/ Give the sentence true or false. (Each		1	
	1.		asymmetric key cryptography, the private key is kept by whom who	en A is sending message		
			B			
		a)				
			В			
			Both			
	_	d)	all the connected devices to the network			
	2.		essage must be encrypted at sender side and decrypted at the			
			Sender Side			
		b)	Site			
			Receiver side			
			Conferencing			
	3.	MA	AC stands for			
		a)	Message authentication code			
		b)	Message arbitrary connection			
		c)	Message authentication control			
		d)	Message authentication cipher			
	4.	Da	ta encryption standard (DES) istype of a	lgorithm?		

5. AES uses a _____ bit block size and a key size of _____ bits in 12 round.

a) block cipherb) stream cipherc) bit cipher

a) 128; 128b) 64; 128c) 256; 128d) 128; 192

a) Trueb) False

d) none of the mentioned

6. Like DES, AES is also uses Feistel Structure.

	7.	Cryptanalysis is used	
		a) to find some insecurity in a cryptographic scheme	
		b) to increase the speed	
		c) to encrypt the data	
		d) none of the mentioned	
	8.	Find the correct-option for the following plaintext	
		HQFUBSWHG WHAW	
		a) ABANDONED LOCK	
		b) ENCRYPTED TEXT	
		c) ABANDONED TEXT	
		d) ENCRYPTED LOCK	
	9.	Caesar Cipher is an example of	
		a) Poly-alphabetic Cipher	
		b) Mono-alphabetic Cipher	
		c) Multi-alphabetic Cipher	
		d) Bi-alphabetic Cipher	
	10.	DES follows	
		a) Hash Algorithm	
		b) Caesars Cipher	
		c) Feistel Cipher Structure	
		d) SP Networks	
Q.2	An	swer the followings. (Attempt any five)	(15)
	1.	Explain message authentication code.	
	2.	Explain block cipher and stream cipher.	
		Explain hash function.	
	4.	Explain the triple DES scheme and justify reason for encryption decryption encryption.	
	5.	Explain Digital Signature.	
	6.	Explain OSI attacks.	(4 -)
Q.3	_	swer the following. (Any three)	(15)
	1.	What is security Services? Explain any three types of security services.	
		Explain Symmetric and Asymmetric Cryptography.	
		Calculate cipher text in case of RSA if p=3, q=11,e=3,M=5.	
	4.	Explain IPsec with its mode.	
Q.4		swer the following.	(O.=)
A.		plain network security model with cryptography.	(05)
В.	EX	plain feistel structure with example and write short note on DES.	(10)
-	XX 7	OR	(4.0)
В.	W1	ite Short note on public key infrastructure.	(10)