2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

Eighth Semester B.E. Degree Examination, Dec.2018/Jan.2019 **Network Security**

Max. Marks:100 Time: 3 hrs.

Note: Answer any FIVE full questions, selecting				
atleast TWO questions from each part.				
		General Association of the Control o		
$\underline{PART - A}$				
1	a.	Explain the general model of Network security system.	(08 Marks)	
	b.	Explain play fair rules for encryption, using play fair key - "STORY" Encrypt the plain text		
		"We will meet tomorrow".	(12 Marks)	
2	a.	With neat diagram explain S-DES key generation algorithm. In S-DES 10 bit key is		
		1011001010 find the values of sub keys k_1 , k_2 if		
		$P_{10}-3$ 5 2 7 4 10 1 9 8 6		
		$P_8 - 6 3 7 4 8 5 10 9$	(10.75)	
		Left circular shift by 1-bit for both rounds.	(10 Marks)	
	b.	With neat diagram explain single round DES Algorithm.	(10 Marks)	
		De tri de Diore II il de la contración d	(06 Mayles)	
3	a.	Explain the Diffie Hellman key exchange algorithm.	(06 Marks) (06 Marks)	
	b.	What are the requirements of a public key cryptosystem? Professional Description using the PSA algorithm for $p = 3$, $q = 11$, as		
	C.	Perform Encryption and Decryption using the RSA algorithm for $p = 3$, $q = 11$, e	(08 Marks)	
			Course the law of	
4	a.	Describe the Digital Signature Algorithm.	(10 Marks)	
•	b.	With neat diagram explain the basic uses of Hash function.	(10 Marks)	
$\underline{PART - B}$				
5	a.	Explain the sequence of events that are required for a transaction in SET.	(10 Marks)	
3	b.	Explain the various phases of SSL handshake protocol.	(10 Marks)	
	U.	Explain the various phases of socialistics provides		
6	a.	Define Intrusion Detection and explain the architecture of a distributed intrusion	n detection	
		system.	(08 Marks)	
	b.	Explain the password selection strategies in detail.	(08 Marks)	
	c.	Mention the classes of intruders and briefly define them.	(04 Marks)	
7	a.	With a diagram explain digital immune system.	(10 Marks)	
	b.	Explain the different types of viruses.	(10 Marks)	
			(10.3/	
8	a.	Define firewall? With neat diagrams briefly explain the three types of firewalls.	(10 Marks)	
	b.	Explain briefly about the firewall configurations.	(10 Marks)	