

<b>BE - SEMESTER- VIII EXAMINATION - SUMMER 2020</b>		
Subject Code: 2170709	Date:27/10/2020	
Subject Name: Information and Ne	twork Security	
Time: 10:30 AM TO 01:00 PM	Total Marks: 70	
Instructions:	- • • • • • • • • • • • •	
1. Attempt all questions.		
2. Make suitable assumptions w		
<b>3.</b> Figures to the right indicate <b>1</b>		MADIZO
		MARKS
<b>Q.1</b> (a) Define the terms: Confidentiality,		03
	the key "engineering". And encrypt the message	04
"impossible".		07
	nalysis. Draw and explain conventional	07
cryptosystem.		
<b>0.2</b> (a) Write the differences between cor	ventional encryption and public key encryption.	03
(b) Write a note on Hill Cipher.	iventional energyption and public key energyption.	04
(c) Explain the key generation in DE	S algorithm.	07
	OR	
(c) Explain the key generation in AE	S algorithm.	07
Q.3 (a) What is the purpose of the S-boxe	1	03
	CBC) and Electronic Code Book (ECB) block	04
cipher modes of operation with th		07
(c) Explain X.509 authentication serv	OR	07
<b>Q.3</b> (a) What is the difference between a		03
	and Output Feedback mode (OFB) block cipher	04
modes of operation with the help		
(c) Explain authentication mechanism	n of Kerberos.	07
-	1 Alexandre	
Q.4 (a) What characteristics are needed in	a secure hash function?	03
	, the cipher text intercepted is $C=10$ which is sent	04
	5, n=35. What is the plaintext M?	07
(c) What do you mean by key distribution with proper illustration	ution? Give at least one method for key	07
distribution with proper indistration	OR	
<b>0.4</b> (a) What is the purpose of the State a	rray? How many bytes in State are affected by	03
ShiftRows?		
(b) Is message authentication code sa	me as encryption? How message authentication	04
can be done by message authentic		
(c) Briefly explain Diffie-Hellman ke	ey exchange. Is it vulnerable to man in the middle	07
attack? Justify.		
		02
	ot the word "ATTACKATDAWN" using the key	03
"LEMON". (b) Write a note on HTTPS.		04
(c) Write a short note on "Digital Sig	nature Algorithm"	07
(c) which a short note on Digital Dig	OR	
Q.5 (a) Explain basic Hash code generation		03
( <b>b</b> ) How public keys can be distribute		04
(c) Explain SSL architecture.		07

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