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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, October/ November - 2020 INFORMATION SECURITY

Time: 2 Hours Max.Marks:75

Answer any five questions All questions carry equal marks

1.	Define Caesar cipher? Calculate the encryption and decryption for the feplain text P= "COME TO MY HOME" by using ceaser cipher with Key k=3.	ollowing [15]
2.a) b)	Specify and contrast all kinds of cipher techniques in the cryptography. Mention the key principles of security.	[7+8]
3.a)	Differentiate between AES and DES in a brief manner.	
b)	Explain how key is generated in the RSA algorithm.	[7+8]
0)	Explain now key is generated in the Rozz algorithm.	[/10]
4.a)	Differentiate block cipher and stream cipher techniques.	
b)	Explain key distribution of symmetric key.	[7+8]
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5.a)	Define authentication service. And explain x.509 authentication services in a de-	etail.
b)	Describe why Kerberos is more secure than the other security mechanisms?	[7+8]
6.	Describe the following terms in detail	
	a) Whirlpool b) knapsack algorithm.	[7+8]
7.a)	Demonstrate combining security associations.	
b)	Discuss about the IP security architecture in detail.	[7+8]
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8.a)	Differentiate socket layer security and transport security.	F F 03
b)	Demonstrate techniques used to avoid guessable password.	[7+8]

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