Code No: 138DT JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, September - 2020 NETWORK SECURITY AND CRYPTOGRAPHY (Electronics and Communication Engineering) Time: 2 Hours Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

1.a) b)	Explain with a neat diagram the Model of Symmetric Cryptosystem. Write a detailed note on Monoalphabetic Ciphers.	[8+7]
2.	Describe the RC5 method used for encryption and decryption.	[15]
3.	Write a detailed note on International Data Encryption algorithm.	[15]
4.	Briefly describe the idea behind Elliptic Curve Cryptosystem and descrimanagement of public key.	be the key [15]
5.a) b)	Use Fermat's theorem to find a number a between 0 and 72 with a c 9794 modulo 73. Use Euler's theorem to find a number x between 0 and 28 with x^{85} congruent to 6	-
6.	Explain in detail about Digital Signatures. Show how signing and verification is Digital Signature Standards.	
7.	Compare and generalize the features of SHA and MD5 algorithm.	[15]
8.a) b)	Explain with a neat diagram the SSL Record Protocol. Write down the applications of IPsec.	[8+7]

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