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Code No: 824AE

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 following plain text P= "COME TO MY HOME" by using ceaser cipher with Key k=3. Specify and contrast all kinds of cipher techniques in the cryptography. 2.a) Mention the key principles of security. b) [7+8]Differentiate between AES and DES in a brief manner. 3.a) Explain how key is generated in the RSA algorithm. b) [7+8]4.a) Differentiate block cipher and stream cipher techniques. Explain key distribution of symmetric key. b) [7+8]5.a) Define authentication service. And explain x.509 authentication services in a detail. b) Describe why Kerberos is more secure than the other security mechanisms? [7+8]Describe the following terms in detail b) knapsack algorithm. a) Whirlpool [7+8]Demonstrate combining security associations. 7.a)

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Discuss about the IP security architecture in detail.

Differentiate socket layer security and transport security.

Demonstrate techniques used to avoid guessable password.

b)

8.a)

b)