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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

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1.a)	List and explain the security services.	
b)	Explain how Cipher Feedback mode can convert a block cipher to stream cipher.	[7+8]
2.	Explain how a plain text block is encrypted using Blowfish algorithm.	[15]
3.a)	Perform encryption and decryption using RSA algorithm of the following. p=17 e=7; M=88.	7; q=11
b)	With a neat diagram explain how to transfer a message confidentially and at the time ensure integrity and authenticity.	[7+8]
4.a)	Explain KerberosV4 authentication dialogue in detail.	
b)	What is the purpose of Digital certificates? Explain.	[7+8]
5.a)	Explain the fields of PGP User Public key Ring?	
b)	Write down the applications of Authentication protocols.	[7+8]
6.a)	List and describe the security services offered by S/MIME.	
b)	What are the requirements of web security?	[7+8]
7.a)	Describe how e-transactions are secured.	
b)	What is the purpose of SSL Change Cipher Specification protocol?	[7+8]
8.a)	List and explain different types of intruders.	
b)	Explain any two approaches of intrusion detection.	[7+8]

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