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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, June/July - 2018 INFORMATION SECURITY

Time: 3 Hours Max. Marks: 60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

	PARI - A	
$5 \times 4 \text{ Marks} = 20$		
1.a) b) c) d) e)	What is the need for information security? Differentiate between block and stream ciphering scheme. Explain about hash functions. Define the services provided by PGP. State and explain about Intruders.	[4] [4] [4] [4]
PART - B		
	5×81	Marks = 40
2.	List and explain in detail about various types of security services.	[8]
3.	With an example explain in detail about mono-alphabetic substitution technique.	[8]
4.	Draw a neat diagram, explain the DES algorithm for 64 bit data and 64 bit key si OR	ze.[8]
5.	Explain the encryption and decryption are performed using RSA algorithm. It algorithm generate the cipher text with given data: p=11, q=5,e=3, PT=9.	Using RSA [8]
6.	Describe in detail about secure hash algorithm (SHA) in detail. OR	[8]
7.	Illustrate in detail about X.509 authentication service with a neat diagram.	[8]
8.	With a neat diagram explain the architecture of IP Security.	[8]
9.	Describe in detail about various techniques used for key management.	[8]
10.	Explain the different types of firewall and its configurations in detail. OR	[8]
11.	Explain in detail about Secure Inter-branch Payment Transactions.	[8]

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