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Max. Marks: 60

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

Time: 3 Hours

Code No: 814AT

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

5×4 Marks = 20

1.a)	What is the need for information security?	[4]
b)	Differentiate between block and stream ciphering scheme.	[4]
c)	Explain about hash functions.	[4]
d)	Define the services provided by PGP.	[4]
e)	State and explain about Intruders.	[4]

PART - B

5×8 Marks = 40

2.	List and explain in detail about various types of security services.	[8]
3.	OR 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 size.[8]	
5.	Explain the encryption and decryption are performed using RSA algorithm. U algorithm generate the cipher text with given data: $p=11$, $q=5$, $e=3$, $PT=9$.	Jsing RSA [8]
6.	Describe in detail about secure hash algorithm (SHA) in detail.	[8]
7.	OR Illustrate in detail about X.509 authentication service with a neat diagram.	[8]
8.	With a neat diagram explain the architecture of IP Security. OR	[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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