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Code No: 117DY	R13	
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November/December - 2016 INFORMATION SECURITY (Information Technology)		
Time: 3 Hours	Max. Marks: 75	
Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all q consists of 5 Units. Answer any one full question from carries 10 marks and may have a, b, c as sub questions.	uestions in Part A. Part B	
PART- A		
La) What is the need for security? b) Explain symmetric key cryptography.	(25 Marks) [2] [3]	
 c) What is the difference between symmetric key cipher and asy d) Write about stream ciphers. e) What are the uses of digital signature? f) What is public key certificate? g) What are the principle services provided by PGP? 	[2] [3] [2] [3] [2]	
 h) Discuss the basic approaches to building security association. i) What are the benefits provided by an intrusion detection system. j) Briefly explain design issues for a fire wall. 	s. [3]	
PART-B		
(Z.a) Explain about different types of Attacks	(50 Marks)	
 Explain about different types of Attacks. Explain in detail about a model for network security. OR	[4+6]	
3.a) Write about security mechanisms.b) Explain about transposition techniques in cryptography.	[4±6]	
4. What are the different types of cipher modes? Explain in deta also their significance.	il with neat diagrams and [10]	
OR	[10]	
Explain in detail about RSA Algorithm with suitable example	. [10]	
 (a) Explain elient-server message exchange with Kerberos. (b) Explain about message authentication codes. (c) OR 	[5+5]	
7-a) Explain knapsack algorithm in detail? b) Explain about digital signatures.	[5+5]	
 Discuss the operational description of PGP. Discuss the transactions provided by 8 MIME. 	[5:5]	



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9.a) Explain transport and tunnel modes of ESP. Descrity.	[5+5]
Loa) Explain the various intrusion detection techniques. b) Explain the principles and limitations of firewall.	[5+5]
OR	[5,5]
11. Explain secure electronic transaction.	f101

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