84	8R 8R 8R 81	K OK	OM	
•		$\mathbf{R}$	15	
Code N	No: 126ZQ JAWAHARLAL NEHRU TECHNOLOGICAL UNIV	ERSITY HYDERABA	D	
? 8	B. Tech III Year II Semester Examinations, INFORMATION SECURITY (Computer Science and Engineering) 3 hours		8R	
Note:	This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer	all questions in Part A.	Part B	
	consists of 5 Units. Answer any one full question from e	ach unit. Each question	carries	,,,,,,,,
8P	10 marks and may have a, b, c as sub questions.	2 8R	8 H	
		(25)	Marks)	
1.a)	Explain the Caesar cipher.		[2] [3]	
b) c)	Define confidentiality and authentication Differentiate conventional & public key encryption.		[2]	C
$\bigcirc$ $\bigcirc$ d)	What is traffic Padding? What is its purpose? What is the purpose of X.509 standard?	<	[3]	C
() ( e) f)	In the content of Kerberos, what is realm?		[3] [2]	
g) h)	Explain the reasons for using PGP. Compare Transport mode and Tunnel Mode.		[3] [2]	
i) j)	What do you mean by malicious software? What is application level gateway?		[3]	700
8R "	SR SR PART B	$-\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	SH Marks)	
		2 × 2 × 3	,	
2.a) b)	Explain how gateway works in internetwork security me Explain the various types of cryptanalytic attacks.	odel.	[5+5]	
2	OR Explain symmetric and asymmetric key criptography		[10]	(
S D.	Explain how key exchange is done using Diffie-Hellma	h kev exchange.	OK	
4.a) b)	Discuss the "man-in-the-middle" attack.		[5+5]	
5.	OR Explain Blowfish algorithm.		[10]	
6.a)	What is HMAC and what are its advantages over MAC Discuss different approaches to Message Authentication		[5\+5]	(
$\forall \forall b$	THE CALL CAR CAR	f the transfer to the	hanges.	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
7.	Discuss the requirements of Kerberos. Explain the Kerb	cros ver i message com	[10]	
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8R	8R	88	8R	8R	88	8R	8		
8.a) b) 9.a) b)	Explain S/MIM	oplications of IP eneral structure o	OR	cation header. Di					
10.	[10]								
11. 8 P	Discuss about	Intrusion Detecti	on and approache	es of Intrusion De	SR.	8R			
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8R	8R	8R	8R	8R	8R	8 R	\{\big _{\text{\text{\$\pi}\$}}		
8R	8R	87	88	88	8R	88			
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8R	8R	8 R	8R	8 R	8R	8R			
2	8 R	8R	8R	8 R	8R	88			