GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER II – EXAMINATION – WINTER - 2016

		ME – SEMESTER II– EXAMINATION – WINTER - 2016	
Su	bject	Code: 3725104 Date: 21/11/20	16
Subject Name: PKI and Biometrics			
Time: 2:30 pm to 5:00 pm Total Marks: 70			70
			10
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks	
0.1	(\cdot)		07
Q.1	(a)	(i) Identify the attacks	07
		a The contents of the test is not confidential on the day of the test it is	03
		confidential before the test day.	05
		b. The value of the check is changed (from \$10 to \$100).	
		c. so many e-mails may crash the server and the service may be	
		interrupted.	
		(ii) Atbash was a popular cipher among Biblical writers. In Atbash, "A" is	04
		encrypted as "Z", "B" is encrypted as "Y" and so on. Similarly "Z" is	
		encrypted as "A", "Y" is encrypted as "B" and so on. Suppose that the	
		alphabet is divided into two halves and the letters in the first half are	
		of cipher and key Encipher the message "an evercise" using Athash	
		cipher	
	(b)	Explain single sign on and single sign off property. Write about one application	07
	()	that is based on this property.	
02	(a)	Explain the four ways in which public keys are distributed	07
Q.2	(a) (b)	Write the RSA public key algorithm. What are the security issues with RSA ?	07
	(0)	OR	07
	(b)	Describe PKI trust models.	07
01	(-)	Describe the mediate included in second biometric sectors	07
Q.3	(a) (b)	Write applications of biometric. How performance of biometric is measured?	07
	(U)	OR	07
0.3	(a)	Write the legal issues involved in network security	07
X	(b)	How public key infrastructure is deployed?	07
0.4	(-)	French in the section of the section of section density disited air stress	07
Q.4	(a) (b)	How E mail can be secured?	07
	(0)	OR	07
0.4	(a)	What is cryptanalysis? Describe cryptanalytic and brute force attack.	07
~ ···	(b)	How public key cryptography can be used to achieve authentication and	07
		confidentiality? Explain with block diagram.	
05	(a)	What are the problems with biometric?	07
Q.3	(a) (h)	How fingerprint can be used as authentication in biometric?	07
		OR	07
Q.5	(a)	Explain file encryption solution.	07
~	(b)	How face detector can be used as authentication in biometric?	07
