Sea	t No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. E SEMESTER – II • EXAMINATION – WINTER • 2014	
Subject code: 2725104 Date: 29-11-20			
	U	Name: PKI and Biometrics	
		2:30 pm - 05:00 pm Total Marks: 70	
ins		tions: Attempt all questions.	
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a) (b)	What are the core components of PKI? Discuss certificates, certificate authorities and registration authorities.	07 07
Q.2	(a) (b)	Define encryption and explain types encryption? Explain cryptosystem.	07 07
	(b)	OR What are the differences between symmetric and asymmetric cryptography?	07
0.3	(b)		
Q.3	(a)	How diffusion and Confusion works in cryptographic system.	07
	(b)	Explain digital signature. What are some threats associated with a direct digital signature scheme	07
		OR	^ -
Q.3	(a) (b)	Discuss Cryptographic issues. What are the key exchange algorithms?	07 07
Q.4	(a)	Discuss encryption with block ciphers.	07
Ų.i	(b)	What is substitution cipher?	07
		OR	
Q.4	(a) (b)	Explain cipher text attack. What is two factor authentication?	07 07
Q.5	(a)	Differentiate between hashing and encryption algorithm	07
	(b)	How do you differentiate message confidentiality from message integrity? Can you have one without the other? Justify your answer. OR	07
Q.5	(a)	How do you differentiate message confidentiality from message integrity? Can you have one without the other? Justify your answer.	07
	(b)	What do you mean by biometric authentication?	07
