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GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER- III • EXAMINATION – SUMMER 2017

Subject Code: 3630012 Subject Name: INFORMATION SECURITY			Date: 09-06-2017	
Tir	ne: 0	2:30 PM to 05:00 PM Total Marks:	70	
Inst	ructio 1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	 Answer the Following. 1. What do you understand by "CIA triangle"? 2. What is Buffer Overflow? 3. Distinguishes between a hacker and cracker. 4. List any three Virus Effect and How It Is Caused. 5. List of requirements for database security. 6. What is SQL Injection attack? 7. What is a Threat in Transit? What is computer security? Explain any three important aspects of any Computer-related System. 	07 07	
Q.2	(a) (b)	What is Vulnerabilities? Explain the software Vulnerabilities. What is an unexpected Program behavior? List flaws arising out of them. OR	07 07	
	(b)	Explain the Unexpected Behavior.	07	
Q.3	(a)	What are Nonmalicious program errors? Explain Incomplete Mediation Security problem.	07	
	(b)	What is a Trusted System? Explain key characteristics. OR	07	
Q.3	(a) (b)	What is Security Policy? Explain Clark Wilson Commercial Security Policy. Explain BellLa Padula Confidentiality Model with Simple Security Property.	07 07	
Q.4	(a) (b)	List of requirements for Database Security and Explain any four requirements. Explain Risk Analysis and Write down the basic steps of risk analysis. OR		
Q.4	(a) (b)	Explain Eavesdropping and Wiretapping.0Briefly Explain Computer-Related Privacy Problems.0		
Q.5	(a) (b)	List out the seven issues in security planning and Explain any one. How can a web site distinguish between lack of capacity and a denial-of-service attack?	07 07	
Q.5	(a) (b)	OR Explain Aspects of Information Privacy. Describe three form of protection and compare in several significant ways.	07 07	
