

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

**Subject Code: 3630012****Date: 09-06-2017****Subject Name: INFORMATION SECURITY****Time: 02:30 PM to 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Answer the Following. **07**
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?
- (b)** What is computer security? Explain any three important aspects of any Computer-related System. **07**
- Q.2 (a)** What is Vulnerabilities? Explain the software Vulnerabilities. **07**
- (b)** What is an unexpected Program behavior? List flaws arising out of them. **07**
- OR
- (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. **07**
- OR
- Q.3 (a)** What is Security Policy? Explain Clark Wilson Commercial Security Policy. **07**
- (b)** Explain BellLa Padula Confidentiality Model with Simple Security Property. **07**
- Q.4 (a)** List of requirements for Database Security and Explain any four requirements. **07**
- (b)** Explain Risk Analysis and Write down the basic steps of risk analysis. **07**
- OR
- Q.4 (a)** Explain Eavesdropping and Wiretapping. **07**
- (b)** Briefly Explain Computer-Related Privacy Problems. **07**
- Q.5 (a)** List out the seven issues in security planning and Explain any one. **07**
- (b)** How can a web site distinguish between lack of capacity and a denial-of-service attack? **07**
- OR
- Q.5 (a)** Explain Aspects of Information Privacy. **07**
- (b)** Describe three form of protection and compare in several significant ways. **07**

\*\*\*\*\*