

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

**Subject Code: 3630012****Date:06/01/2017****Subject Name: Information Security****Time:10:30 am to 01:00 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 is Software Theft?
  2. What is Buffer Overflow?
  3. List out characteristics of trusted system.
  4. What is characteristic of a good security policy?
  5. List of requirement for database security.
  6. What is Eavesdropping?
  7. What is Wiretapping?
- (b)** Explain three important aspects of any computer related system security. **07**
- Q.2 (a)** What is Encryption? Explain software and hardware controls. **07**
- (b)** What is an unexpected Program behaviour? List flaws arising out of them. **07**
- OR**
- (b)** What are Nonmalicious program errors? Explain Time of Check to Time of Use Errors. **07**
- Q.3 (a)** What is Security Policy? Explain Military Security Policy. **07**
- (b)** Explain BellLa Padula Confidentiality Model. **07**
- OR**
- Q.3 (a)** Compare the Military and Chinese wall Security Policy **07**
- (b)** Explain characteristics of a Good Security Policy. **07**
- Q.4 (a)** What is Vulnerabilities? Explain Website Vulnerability. **07**
- (b)** What is Risk Analysis? Explain the Steps of a Risk Analysis. **07**
- OR**
- Q.4 (a)** What is Auditability? Explain any two requirements of database security. **07**
- (b)** Explain Computer Related Privacy Problem. **07**
- Q.5 (a)** What is a Patent? Explain Copyrights for Digital objects. **07**
- (b)** Comparing Copyright, Patent, and Trade Secret Protection in details. **07**
- OR**
- Q.5 (a)** List out a set of principles of fair information practice and Explain US Privacy Laws. **07**
- (b)** What is Authentication? Explain Steps to protect Against Privacy Loss. **07**

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