

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated- SEMESTER- VII- EXAMINATION – WINTER- 2018

Subject Code: 4470621**Date: 22/11/2018****Subject Name: Information Security****Time: 10.30 am to 01.00pm****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) State the types of computer criminals. How are they different from other criminals? **07**
(b) Explain the terms attacks and vulnerabilities. **07**
- Q.2** (a) How could defense methods be used for safer computing? **07**
(b) How could time related errors pose a threat to information security? **07**
- OR**
- (b) Explain the terms 1. Buffer Overflow 2. Flaws 3. Trusted System **07**
- Q.3** (a) How are military security policies different from commercial security policies? **07**
(b) How does multilevel security help to keep information secure? **07**
- OR**
- Q.3** (a) What are the ways to setup auditability access control? **07**
(b) How are the terms integrity, confidentiality and availability related to information security? **07**
- Q.4** (a) What are the ways in which network vulnerabilities insecure information? **07**
(b) Why are threat in transit dangerous in keeping information secure? **07**
- OR**
- Q.4** (a) Briefly explain protocol flaws with respect to information security. **07**
(b) How could one use integrity and confidentiality threats to keep information secure? **07**
- Q.5** (a) How are organizational security policies used for information security? **07**
(b) Why should one perform risk analysis for building an information secure system? **07**
- OR**
- Q.5** (a) How are computer related privacy problems an hindrance to information security? **07**
(b) Explain the similarities and differences among copyrights, patents and trade secrets with respect to information security. **07**
