中山大学软件学院 **2008-09** 级软件工程专业 (2011 学年秋季学期)

《Web Security》期末试题 (A卷)

(考试形式：开卷　考试时间：2 小时)

方向：＿＿＿＿＿＿　　姓名：＿＿＿＿＿　　学号：＿＿＿＿＿

Part 1. Explanation of Terms, 30 points

NOTE: Give the definitions or explanations of the following terms, 5 points for each.

(1) Data Integrity

(2) Information Security Audit

(3) PKI

(4) X.509

(5) Denial-of-Service Attack

(6) SOA(Service-Oriented Architecture)

Part 2. Brief Questions, 40 points

NOTE: Answer the following HOW TO questions in brief, 8 points for each.

(1) Asymmetric Cryptographic Method.

(2) MD5: How to be used for password protection.

(3) ARP Poisoning: How to carry out an ARP Cache Poisoning Attack.

(4) Vulnerabilities of Firewall: How to penetrate a firewall, illustrated with at least 3 examples.

(5) Security in Cloud Computing: How to discern the Security in Cloud Computing in your point of view.

Part 3. Essay Questions, 30 points

NOTE: Discuss the following questions in detail, 10 points for each.

(1) Discuss some PORT SCAN Software you ever used, including the usage and the running result analysis.

(2) Discuss the mechanisms of Buffer Overflow in illustration of some real example.

(3) Select one from the OWASP's Top Ten Threatens of Web Applications 2010 and discuss the mechanisms, citing in illustration.