

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – II • EXAMINATION – WINTER 2012

Subject code: 725106

Date: 02/01/2013

Subject Name: Ethical Hacking and Cyber Laws

Time: 10.30 am – 01.00 pm

Total Marks: 70

Instructions:

- 1. Attempt question 1, which is compulsory and answer any four from the rest questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

Q. No. 1

- a. Write the guidelines for creating & maintaining a strong password. Give an example of a password. [7 Marks]
- b. What is a honeypot? Write its purposes for network security. [7 Marks]

Q. No. 2

- a. How would you carry out a phishing attack? [7 Marks]
- b. What do you mean by steganography? Explain how steganography works. [7 Marks]

Q. No. 3

- a. List and explain any 7 scanning options used by Nmap. [7 Marks]
- b. What is hacking? List the various kinds of hackers and explain their purposes. [7 Marks]

Q. No. 4

- a. How can spam mail be used to perpetuate an attack? [7 Marks]
- b. Explain the concept of 'salting' with regard to password storage and cracking. [7 Marks]

Q. No. 5

- a. Where would you deploy a packet filter? What kind of information can you expect to get from it? [7 Marks]
- b. Explain how the Metasploit framework can be used for system hacking. [7 Marks]

Q. No. 6

- a. Explain step-by-step how to carry out an ARP spoofing attack using either Backtrack or a GUI based tool. [7 Marks]
- b. What do you mean by ping? What help can be provided by its various switches, while preparing for a hack? [7 Marks]

Q. No. 7

- a. What are the various ways in which you could detect that a firewall has been deployed on the target network? [7 Marks]
- b. List and explain the various methods that can be used for password cracking. [7 Marks]

Q. No. 8

- a. Who is a penetration tester? What does his job entail? [7 Marks]
- b. As a security advisor, what are some of the simplest methods you would to safeguard against attacks within a corporate network? [7 Marks]
