

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2014

Subject code: 2725106

Date: 27-06-2014

Subject Name: Ethical Hacking and Cyber Laws

Time: 02:30 pm - 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. No. 1

- a. What are the pre-attack phases? Explain in brief. [7 Marks]
- b. What is Reconnaissance? Explain with an example? [7 Marks]

Q. No. 2

- a. Explain the flow of stages of active reconnaissance with an example. [7 Marks]
- b. What is Vulnerability Assessment? By using which tools are we assess vulnerabilities? [7 Marks]

OR

- b. List and explain the various methods that can be used for password cracking. [7 Marks]

Q. No. 3

- a. What are the stages that fall under active reconnaissance? [7 Marks]
- b. What is Kickstart file? How it is useful to an attacker? [7 Marks]

OR

Q. No. 3

- a. What are the different types of scanning explain in detail? [7 Marks]
- b. What is client side attack? Explain with an example. [7 Marks]

Q. No. 4

- a. What is Meterpreter? Explain how it can be useful? [7 Marks]
- b. What is NMAP? How we can detect the finger print of OS? [7 Marks]

OR

Q. No. 4

- a. What is Zone transfer? Explain it's working? [7 Marks]
- b. Explain Banner Grabbing in detail? [7 Marks]

Q. No. 5

- a. What do you mean by Cyber laws? Explain jurisprudence of Indian Cyber Law. [7 Marks]
- b. What is digital signature? How is it helpful for authentication of any electronic record? Under which IT Act it is defined as crime and what are the punishment provisions? [7 Marks]

OR

Q. No. 5

- a. IT Act 2000 confers power upon the Controller of Certifying Authorities to investigate contraventions under the Act. Mr. A suspects Mr. B of creating and publishing digital signature certificates for fraudulent purposes. Mr. A is having confusion how to approach for investigation of suspected crime & to whom. Will you help Mr. A with detailed explanations? [6 Marks]
- b. Ms. X has been assigned project on Intellectual property rights associated with circuit design. She conducts a search on Google & comes across many articles on the topic. She downloaded these articles and uses them extensively in her project without taking permission from concerned authors of the articles. Ms. X insists that since she is using the articles for private use, she is not liable for any infringement. Is she right? Discuss in detail as per the law. [8 Marks]
