

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2014

Subject Code: 725106**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.1** (a) What is meant by ethical hacking? Discuss the same in brief. Explain any two phases of ethical hacking in detail. **07**
- (b) List some of the automated security assessment tools and their features. **07**
- Q.2** (a) What is penetration testing? Explain steps for performing penetration testing. **07**
- (b) Explain footprinting with some tools. **07**
- OR**
- (b) Explain nmap with its different type of scans. **07**
- Q.3** (a) Explain different types of attacks through which one can crack password(s) of the system. Also mention steps that you will take as an administrator of the system to counter such attacks. **07**
- (b) What is honeypot? Explain production honeypots and research honeypots in detail with neat sketches. **07**
- OR**
- Q.3** (a) Explain Distributed Denial of Service attacks and also give their countermeasures. **07**
- (b) Firewalls are used for packet filtering in the computer network. Check the correctness of this statement and give proper justification. Enlist and explain various types of firewalls. **07**
- Q.4** (a) Elaborate the role of digital signature in e-commerce security system. **07**
- (b) How session hijacking can be dangerous to system? In which ways, we can prevent it from occurring to our system? **07**
- OR**
- Q.4** (a) What do you mean by Cyber crime? Discuss the same in detail with example(s) in context of internet. **07**
- (b) (1) Enlist and explain various kinds of hackers with their purposes. **03**
- (2) Discuss enumeration and step-by-step hacking in brief. **04**
- Q.5** (a) What do you mean by google hacking? Support your answer with proper examples. **07**
- (b) (1) Enlist the guidelines for creating and maintaining a strong password. Support your answer with example(s). **04**
- (2) Briefly describe phishing attack. **03**
- OR**
- Q.5** (a) Explain vulnerabilities of web servers. How can you use them to launch attack on web server? **07**
- (b) Write a brief note on : **07**
- IT Act 2000.
 - Dual Key Encryption
