

GUJARAT TECHNOLOGICAL UNIVERSITY**M.E –IIst SEMESTER–EXAMINATION – JULY- 2012****Subject code: 725101****Date: 06/07/2012****Subject Name: Application Security****Time: 10:30 am – 13:00 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) Explain term "Cross-Site Scripting"? What is the potential impact to servers and clients? **07**

(b) What are the most important steps for securing a new web server and a Web application? **07**

Q.2 (a) One of your web servers is logging multiple requests similar to the following: **07**

201.1.199.155 - - [26/Dec/2004:01:55:48 -0500] "PUT /hacked.htm HTTP/1.0 403 769 "Microsoft Data Access Internet Publishing ProvideDAV1.1""-

What does this log entry indicate? How could you identify what the contents are of the "hacked.htm" file that the attacker is trying to upload?

(b) Explain CSRF with example. **07**

OR

(b) How to implement Web Application Securities? What is the Role of Injections? **07**

Q.3 (a) Various ways to implement Transport Layer Protections and its advantages. **07**

(b) Explain Different String Methods used in python with example. **07**

OR

Q.3 (a) Disadvantages of Security Misconfiguration **07**

(b) Explain List comprehensions and also creating , updating , deleting and accessing a list elements in python by example. **07**

Q.4 (a) Explain A web application firewall (WAF) with example. **07**

(b) Explain how to write function, Different types of Arguments , function call by value and reference with example. and also explain use of Lambda function in python. **07**

OR

Q.4 (a) Explain Broken Authentication **07**

Q.4 (b) What is the use of Dictionaries in python? How to create , update and delete Dictionaries in python? Explain **07**

Q.5 (a) How to implement Session management. **07**

(b) Explain Exception handling with example in python. **07**

OR

Q.5 (a) What is Insecure Cryptographic Storage? Explain. Write steps to correct it. **07**

(b) Write various File Handling methods in python. **07**
