

**Practical Test - Networking Security and Cryptography**

Duration: 1 hour – Total Marks: 15

1. Describe “Cross-Site Scripting”

2. Find the way to reduce the attack via “File Upload”

3. What is “CSRF”?

4. John is assigned by the company to make a website using jsp, servlet, jdbc. Unfortunately this website has a “sql injection” vulnerability in the login function. Please make the login function re-appearing “sql injection” vulnerability of John.

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| ***Networking Security and Cryptography*** | | | |
|  | 02.0 |  | Questions 1 |
|  | 03.0 |  | Questions 2 |
|  | 03.0 |  | Questions 3 |
|  | 07.0 |  | Questions 4 |
|  | 15.0 |  | Total Marks |

1. Describe “Cross-Site Scripting”

The most commonly used technique for hacking of Application layer is Cross Site

Scripting (XSS).

The XSS hacking technique refers to the vulnerabilities in the Web application code

which allows the attacker to send the malicious content from end-users and also

collect some data from the victim.

Using XSS, an attacker is allowed to embed malicious content to JavaScript, ActiveX,

VBScript, Flash, or HTML for fooling the user and thus, the code is executed on the

user's machine and the information required by the attacker is gathered.

The use of XSS may result in security compromises such as exposing private

information, stealing or manipulating cookies, executing malicious code on users

system, or to create requests on behalf of a valid user.

2. Find the way to reduce the attack via “File Upload”

Check file name

Check size file

Check type of file

Check Invalid file type processing

Scanning virut

3. What is “CSRF”?

Cross Site Request Forgery

A victim’s browser is forced to send a request in CSRF attack to a vulnerable Web application, which performs the action selected by the victim. The attacked site does not contain any malicious code. Therefore, this attack is known as ‘Cross Site’. Thus, if user is not protected against CSRF, he is vulnerable to it. This type of attack can be very harmful to several Web applications.

4. John is assigned by the company to make a website using jsp, servlet, jdbc. Unfortunately this website has a “sql injection” vulnerability in the login function. Please make the login function re-appearing “sql injection” vulnerability of John.

- sql injection

String sql = "select \* from users where username = '"+pName +"' and password = " +password;