



## **UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING**

### **IS2109 Information Systems Security - Practical 7** **Secure Web Browsing**

#### **Instructions:**

- **Submit answers for all the following questions. Clearly mention the Question Numbers.**
- **You must submit your answers as a PDF document named as P7\_GroupNumber (E.g. P7\_Group 5)**
- **Only one document should be submitted from a group and make sure to mention the index numbers of the group members at the end of the document.**

**\*\* For 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> questions, include screenshots where necessary \*\***

1. [Download the file](#). Then analyze it using the [VirusTotal site](#) and give a brief summary of it. Check the integrity of the file.
  - MD5 : e2c6d562bd35352b73c00a744e9c07c6
2. [This site](#) helps you to share your snippet notes. Sign up to the site and login to it. Save your password in the browser and try to reveal it. Use a Cookie Manager Plugin in Firefox to view and download the cookie set by this site. Exchange the cookie set with your friend and try to import that cookie set to your browser.
  - Explain 2 vulnerabilities of the site at a glance.
  - Is it legal to perform the above task on this site?
  - Is it legal to perform the above task in other sites? If no, under which act you will get punished according to the Sri Lankan law?

3. Find your IP address online. Find the location and the owner/provider of the IP address. Use a proxy server and now what is your IP address. What are the advantages of using a proxy server?
4. It is recommended to use a temporary Gmail account to perform the following tasks.
  - Explain 2 best practices to login to your accounts in a public computer.
  - Use the above proxy server to login to the Gmail account and explain the security issue and the options provided by google while you are logging in.
  - What is the threat of submitting passwords through a proxy server?
  - Logout from the account and change the password without the proxy server.
  - Find out information about the recent devices logged in and suspicious security issues in your account.
  - Activate 2-way authentication.
  - What are the different options Google gives you to access the account when you forgot your password?
  - List down modern day authentication mechanisms and their advantages?
5. What is the first step Google would perform in order to classify your email according to the priorities?