



UNIVERSITY OF KELANIYA - SRI LANKA
FACULTY OF COMPUTING AND TECHNOLOGY

Bachelor of Science Honours in Computer Science Degree Examination - January 2021

Academic Year 2018/2019 - Semester I

Computer Science

CSCI11052 - Web Fundamentals

No. of Questions: **Four (04)**

No. of Pages: **Two (02)**

Time: Two (2) Hours

Answer **All** Questions.

01. (a), (i). Briefly explain the way of accessing web pages in the *Internet*.
(ii). List and briefly describe the usage of three (3) network layer protocols in the network domain.
(iii). List three (3) techniques that can be used to track online visitors on a website.
- (b). Briefly explain each of the following terms.
(i). Proxy Server (ii). Web Crawler (iii). SEO
- (c). (i). What is meant by 'Simple Object Access Protocol (SOAP)'?
(ii). List and briefly explain three (3) parts/elements of a SOAP message.
02. (a), (i). List three (3) web security issues with web services.
(ii). What is meant by 'Digital Signature'?
(iii). Briefly explain the difference between 'Asymmetric Encryption' and 'Symmetric Encryption'.
- (b). Write down the JSON and XML codes to represent the following details.
- | Employees | | |
|-----------|-------|------------------------------------------------------|
| ID | Name | Email |
| EMP 01 | Nimal | nimal@gmail.com |
| EMP 02 | Kasun | kasun@yahoo.com |
- (c). List and briefly describe five (5,) web designing principles/ theories.

