



Sri Lanka Institute of Information Technology

B.Sc. Honours Degree in Information Technology

Specialized in Information Technology

Final Examination

Year 1, Semester 2 (2019)

IT1100 – Internet and Web Technology

Duration: 2 Hours

October 2019

Instructions to Candidates:

- ◆ This paper has 3 questions.
- ◆ Answer all questions in the booklet given.
- ◆ The total marks for the paper is 100.
- ◆ This paper contains 4 pages, including the cover page.
- ◆ Electronic devices capable of storing and retrieving text, including calculators and mobile phones are not allowed.

Question 1

(20 Marks)

- a) Compare LAN and WAN networks. (4 marks)
- b) You are asked to create a web site/web application to maintain and display SLIIT Students Exam Results. Select your choices from below requirements and explain your selections. (8 marks)
- I. Static or Dynamic content
 - II. Development languages
 - III. Database
 - IV. Network (LAN, WAN)
- c) According to the distribution of components a computer system can be divided in to two types. Name and briefly explain them. (4 marks)
- d) Outline 02 real examples for each of the following e-commerce categories (4 marks)
- I. B2B
 - II. B2C
 - III. C2C

Question 2

(20 Marks)

- a) List 3 types of internet attacks. (3 marks)
- b) Briefly describe the following three terms with respect to Information Security. (6 marks)
- a. Confidentiality
 - b. Integrity
 - c. Availability
- c) Illustrate and briefly explain how public key encryption works. (8 marks)
- d) Describe the best security practices of YouTube. (3 Marks)

Question 3

(60 Marks)

Online Vehicle Booking ("vehicledetail.html")

Customer Details

Customer Name:

Phone Number:

Email:

Pick up Address :

Vehicle Details

Vehicle type:

Air Condition :
☒ With AC ☐ Without AC

Tour Staff :
☒ Yes ☐ No

Date Details

Start Date :

End Date :

- a) Construct html code ("vehicledetail.html") to display the above form. Your form method should be post and action page name should be "insert_vehicledetail.php".

(20 marks)

- b) You have a database "vehicle_db", inside that there is a table name "vehicle_booking". User name for the database is "root" and the password is con@34#!.

(10 marks)

- I. Write a "config.php", to create a mysqli database connection object.
- II. What is the main advantage of using mysqli database connection as a separate file "config.php".

- c) Create a php file “**insert_vehicledetail.php**” and complete it by adding php codes for following requirements.

(15 marks)

- I. Import “**config.php**” file.
- II. Capture all the user inputs you received from “**vehicledetail.html**”.
- III. Insert data in to “**vehicle_booking**” table by using an insert query.

The structure of the table (“**vehicle_booking**”) is as below.

| name | phone | email | address | vehicle_type | air_condition | starting_date | end_date |
|------|-------|-------|---------|--------------|---------------|---------------|----------|
| | | | | | | | |

- d) Create a php file “**display_vehicledetail.php**” and display a record (according to the sample output format given below) available in the table “**vehicle_booking**”.

(15 marks)

Sample output:

Customer detail :

Customer Name: Senaka Gamage

Customer Email: senakagamage@gmail.com

Customer Phone Number: 0777589652

Customer Address: No 11, Galle rd, Colombo 04

Vehicle details:

Vehicle Type : SUV

Air Condition :Yes

Starting Date : 15/06/2018

End Date : 30/06/2018

End of the Question Paper