

The Open University of Sri Lanka  
Faculty of Engineering Technology  
Department of Electrical and Computer Engineering



Study Programme	: Diploma in Information Systems and Technology
Name of the Examination	: Final Examination
<b>Course Code and Title</b>	<b>: EEI3364/ECI3164 Internet Application Development</b>
Academic Year	: 2019/20
Date	: 21 <sup>st</sup> October 2020
Time	: 0930 – 1230hrs
Duration	: <b>3 hours</b>

### General Instructions

1. Read all instructions carefully before answering the questions.
2. This question paper consists of **Three (3)** questions in **Four (4)** pages.
3. Answer all the questions. Save the final answer files in a folder in the desktop and name it with your index number.
4. This is a Closed Book Test (CBT).

*Note: Keep your work regularly backed up*

Q1. You have given the sketch of the Coffee Bean Online Order Web Page. Use it to answer the following questions.

Button → clear cart    Continue Shopping    Proceed to check-out ← Button

Button →

<input type="checkbox"/>	Product Name	Amount	Price (Rs)
<input checked="" type="checkbox"/>	Apple Pie	2	200.00
<input type="checkbox"/>	Sausage Pastry	1	350.00
<input checked="" type="checkbox"/>	Fish bun	4	0.00

Button → Submit

Total Discount     Total Price

Figure 1: Coffee Bean Online Order Web Page

- Create a HTML webpage **bakery.html** as shown in Figure 1 including the buttons and the textboxes. You can design on your own. [12 marks]
- Write a javascript file to calculate the **Total Discount** based on the inputs from the webpage (**bakery.html**) considering the rules given below (a. and b.). The web page should display the product names in a table as given in the sketch diagram and user should be able to click the checkboxes and add products. After the user adds a product, the checked row should change the colour. Then the user can add the number of products that they need. After the user clicks on the **Submit** button, **Total Discount** and **Total Price** (**Total Price= Overall Price – Total Discount**) should be displayed on the web page.

**Rules:**

- When one time order value exceeds Rs.1000/=, a discount will be given as 15% or else the discount is 3%.
- When the user clicks on the **Submit** button, the results such as; **Total Discount** and the **Total Cost** must be displayed on the respective text boxes.

[20 Marks]

Q2. You are given University Statistics Data from a certain university. Use it to answer the following question.

University Statistics Data						
01	Local Students			International Students		
02	Undergrad	Master		Undergrad	Master	
03	Full Time	Full Time	Part Time	Full Time	Full Time	Part Time
Majors	654	564	655	45	34	12
Minor	456	453	767	242	122	454
PROGRAMME						
Diploma	343	434	342	232	122	233
Undergrad	177	755	575	575	734	433

Figure 2: Sample University Statistics Data

a. Create a HTML table **universitystats.html** shown in Figure 2.

(20 marks)

Q3. Create a HTML webpage **currency.html** as shown in Figure 3 including the buttons and the textboxes.

(8 marks)

Write a javascript file that changes the following when the user presses the **Convert** button

- a. Background colour from white to **GREEN** when the currency is converting from USD to LKR.

[20 Marks]

- b. Background colour from white to **BLUE** when currency is converting from LKR to USD.

[20 marks]

The currency conversion calculation is as follows:

US Dollar to Sri Lankan Rupee Conversion  
 $[USD] = [LKR] / 185.8$

Sri Lankan Rupee to US Dollar  
 $[LKR] = [USD] \times 185.8$