



Study Programme	: Bachelor of Software Engineering Honours
Name of the Examination	: Final Examination
Course Code and Title	: EEI4346-Web Technology
Academic Year	: 2021/22
Date	: 01 st July 2022
Time	: 1000-1300hrs

1. Read all instructions carefully before answering the questions.
2. Answer all **Three (3)** questions.
3. This is a Closed Book Test (**CBT**). Answers should be in clear handwriting.

Question 01 (50 Marks)

Assume that you are working as a developer in a software company. You are asked to develop a small web application to gather information about employees and store their information in the database.

1. Write an HTML/CSS snippet to create a form as shown in Figure 01. (20 marks)
2. When you enter the titles (Mr, Ms, Mrs), the system needs to display the employee's gender automatically. Write a JavaScript code to display the employee's gender in the Gender text field. (10 marks)
3. Assume that you have created the database and table according to Table 01. Write a PHP code to create a database connection. (10 marks)
4. Write an insert query to insert an employee's details into the table "emp_details". (Mention all your assumptions clearly) (10 marks)

Table 01

Database name	emp_db		
Table name	emp_details		
Field name	Field type	size	key
emp_id	INT	5	pk
nic	INT	15	
title	VARCHAR	5	
fname	VARCHAR	20	
lname	VARCHAR	20	
gender	VARCHAR	5	
dob	DATE		

Employee Details

Employee ID

NIC

Title

First Name

Last Name

Gender

Date of Birth

Age

Salary

Figure 01

Question 02 (30 Marks)

1. What is an enterprise? List down three (3) examples of an enterprise. (6 marks)
2. What are the integration styles? Describe two (2) of them with a proper diagram. (8 marks)
3. List down five (5) various authorization methods provided by Postman API? (5 marks)
4. Write Scripts to GET and SET local variables and global variables as follows. (6 marks)

Table 02

Method	Local		Global	
	Variable	Values	Variable	Values
SET	s_name	Amali	department	ELC
	s_address	Nawala	faculty	Engineering
GET	s_name	Amali	faculty	Engineering

5. Briefly describe the differences between SOAP and RESTful web services. (5 marks)

Question 03 (20 Marks)

1. What are the different validators in ASP.NET? Briefly describe them with suitable examples. (6 marks)
2. What does Model-View-Controller represent in an MVC application? (6 marks)
3. Draw the output for the following code? Include all the necessary messages. (8 marks)

```

<tr>
  <td class="auto-style15"><strong>LinkedIn URL</strong></td>
  <td class="auto-style9">
    <asp:TextBox ID="txt_url" runat="server"></asp:TextBox>
  </td>
  <td class="auto-style12"><em>
    <asp:RequiredFieldValidator ID="RequiredFieldValidator7"
      runat="server"
      ControlToValidate="txt_url" CssClass="auto-style18"
      ErrorMessage="URL is required"></asp:RequiredFieldValidator>
    <br />
    <asp:RegularExpressionValidator ID="RegularExpressionValidator2"
      runat="server" ControlToValidate="txt_url"
      ErrorMessage="Must be in correct format"
      ForeColor="Red"
      ValidationExpression="http(s)?://([\w-]+\.)+[\w-]+(/[\w- ./?%&=]*)?">
    </asp:RegularExpressionValidator></em>
  </td>
</tr>

```