Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER I
SESSION 2019/2020

COURSE NAME	:	DOT NET PROGRAMMING
COURSE CODE	:	BIE 33103
PROGRAMME CODE	:	BIP / BIW
EXAMINATION DATE	:	DECEMBER 2019 / JANUARY 2020
DURATION	:	3 HOURS
INSTRUCTION	:	ANSWER **ALL** QUESTIONS.

THIS QUESTION PAPER CONSISTS OF **SIX (6)** PAGES

SECTION A

Determine whether each of these statements is **TRUE** or **FALSE**.

Q1 Manage code is the format of code that can be understand by operating system. (1 mark)

Q2 Code-Behind class shows the client-side code. (1 mark)

Q3 `<%@ page language="C#" %>` inside an `.aspx` file is an example of inline code within a code render block. (1 mark)

Q4 Accessibility of `Public` Access Modifier is limited only inside the class. (1 mark)

Q5 `void` keyword specifies that a function or method does not return a value. (1 mark)

Q6 Data binding provide flexibility when you use data from a database. (1 mark)

Q7 In C#, `SqlDataSource` Class represents an SQL database to data-bound controls. (1 mark)

Q8 View State mode are available for both ASP.net and HTML control. (1 mark)

Q9 In a web application, there are two level events; page and control level. (1 mark)

Q10 XML is the only format that .NET Framework supports for serialization. (1 mark)

SECTION B

Answer **ALL** questions.

Q11 (a) Describe the execution of client side source code in `ASP.NET`. (3 marks)

(b) Write a C# code segment to print the output as shown in Figure **Q11** using `while` statement.

```
I love dotNET Programming!
I love dotNET Programming!
I love dotNET Programming!
```

FIGURE Q11

(3marks)

(c) Write a C# code segment to check whether a number is even or odd using `if-else` statement. (4 marks)

Q12 (a) Differentiate between `Int32.Parse(string s)` and `Convert.ToInt32(string s)` methods. (4 marks)

(b) Based on Figure **Q12**, answer the following questions.

```
using System;

class ProgramQ12b
    {
        static void Main(string[] args)
        {
            Console.Write(" Input any positive number : ");
            int num = Convert.ToInt32(Console.ReadLine());
            long f = Calc(num);
            Console.WriteLine(" The output of calculation of {0}
is : {1} ", num, f);
            Console.ReadKey();
        }
        private static long Calc(int num)
        {
            if (num == 0)
            {
                return 1;
            }
            return num * Calc (num-1);
        }
    }
```

FIGURE Q12

(a) Analyze the codes. Explain what the codes would like to achieve.
(4 marks)

(b) Using your own input, write down sample of output.
(2 marks)

Q13 Based on Figure **Q13**, answer the following questions.

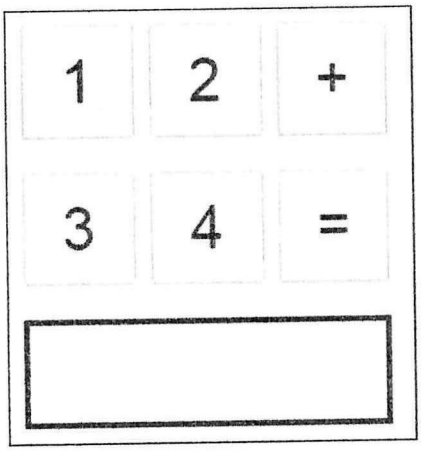

FIGURE Q13

(a) Write `<body></body>` code segment for the `.aspx` file to generate the interface as in Figure **Q13.** Assume that size of `button` "1" is $60px \times 60px$.
(13 marks)

(b) Assume that ID for `button` "1" is `Button1`, while ID for the `Textbox` is `t`. Write `.aspx.cs` file code segment for `Button1_Click()`.
(7 marks)

Q14 Based on Figure **Q14**, answer the following questions.

```
<form id="form1" runat="server">

   <table style="width: 66%;">

      <tr>
         <td class="style1" colspan="3" align="center">
         <asp:Label ID="lblmsg"
            Text="President Election Form : Choose your president"
            runat="server" />
         </td>
      </tr>
```

```
      <tr>
         <td class="style3">
            Candidate:
         </td>

         <td class="style2">
            <asp:DropDownList      ID="ddlcandidate"      runat="server"
style="width:239px">
               <asp:ListItem>Please Choose a Candidate</asp:ListItem>
               <asp:ListItem>Adam</asp:ListItem>
               <asp:ListItem>Scott</asp:ListItem>
               <asp:ListItem>Siva</asp:ListItem>
               <asp:ListItem>Johan</asp:ListItem>
            </asp:DropDownList>
         </td>

         <td>
            <asp:RequiredFieldValidator ID="rfvcandidate"
               runat="server" ControlToValidate ="ddlcandidate"
               ErrorMessage="Please choose a candidate"
               InitialValue="Please choose a candidate">
            </asp:RequiredFieldValidator>
         </td>
      </tr>

      <tr>
         <td class="style3">
            House:
         </td>

         <td class="style2">
            <asp:RadioButtonList      ID="rblhouse"      runat="server"
RepeatLayout="Flow">
               <asp:ListItem>Red</asp:ListItem>
               <asp:ListItem>Blue</asp:ListItem>
               <asp:ListItem>Yellow</asp:ListItem>
               <asp:ListItem>Green</asp:ListItem>
            </asp:RadioButtonList>
         </td>

         <td>
            <asp:RequiredFieldValidator ID="rfvhouse" runat="server"
               ControlToValidate="rblhouse"   ErrorMessage="Enter   your
house name" >
            </asp:RequiredFieldValidator>
            <br />
         </td>
      </tr>

      <tr>
         <td class="style3">
            Class:
         </td>

         <td class="style2">
            <asp:TextBox ID="txtclass" runat="server"></asp:TextBox>
         </td>

         <td>
            <asp:RangeValidator ID="rvclass"
               runat="server" ControlToValidate="txtclass"
```

```
                ErrorMessage="Enter your class (6 - 12)" MaximumValue="12"
                MinimumValue="6" Type="Integer">
            </asp:RangeValidator>
         </td>
      </tr>

      <tr>
         <td class="style3">
            Email:
         </td>

         <td class="style2">
            <asp:TextBox          ID="txtemail"          runat="server"
style="width:250px">
            </asp:TextBox>
         </td>

         <td>
            <asp:RegularExpressionValidator ID="remail" runat="server"
               ControlToValidate="txtemail"   ErrorMessage="Enter   your
email"
               ValidationExpression="\w+([-+.']\w+)*@\w+([-
.]\w+)*\.\w+([-.]\w+)*">
            </asp:RegularExpressionValidator>
         </td>
      </tr>

      <tr>
         <td class="style3" align="center" colspan="3">
            <asp:Button          ID="btnsubmit"          runat="server"
onclick="btnsubmit_Click"
               style="text-align:          center"          Text="Submit"
style="width:140px" />
         </td>
      </tr>
   </table>
</form>
```

FIGURE Q14

(a) Analyze codes in Figure **Q14** to produce a form in design view.

(14 marks)

(b) Explain validation control used in Figure **Q14.**

(12 marks)

(c) Extend the codes by including `ValidationSummary` control into codes in Figure **Q14.**

(4 marks)

- END OF QUESTION –