



Philadelphia University
Faculty of Engineering

Marking Scheme

Examination Paper

BSc CE

Advanced Programming Language (630501)

Second Exam

First semester

Date: 18/12/2011

Section 2

Weighting 20% of the module total

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The presented exam questions are organized to overcome course material through 4 questions. The *all questions* are compulsory requested to be answered.

Marking Assignments

Question 1 This question is attributed with 7 marks if answered properly; the marks are organized as follows:

1. The -----class defines the basic functionality for a Mobile ASPX page.
 a) Form b) MobileForm c) **MobilePage** d) None of the above
2. Property -----specifies the source of the data that can be bind with the mobile selection list control.
 a) ComboData b) Source c) DataList d) **DataSource**
3. What is the output of the file the c# compiler produces?
 a. Byte Code b. **MSIL** c. Hex Dump d. Intel Assembler
4. The ----- property returns an object containing all the values in a mobile list control.
 a. All b. List c. ListItemValues d. **Items**
5. What ASP.NET object encapsulates the Web site?
 a) The Session Object
 b) **The Application Object**
 c) The Response Object
 d) The Request object
6. What code segment represents the event handler registration for the click event of the btnA Button control?
 a) this.btnA.Click.Register(new System.EventHandler(this.btnA_Click));
 b) this.btnA.Click.Add (new System.EventHandler(this.btnA_Click));
 c) **this.btnA.Click += new System.EventHandler(this.btnA_Click);**
 d) this.btnA.ClickEvent += new System.EventHandler(this.btnA_Click);
7. When a browser requests an .aspx file and the file is displayed, what is actually returned to the browser from the server?
 a. **HTML** b. ASPX c. ASP d. PHP

Question 2 This question is attributed with 2 marks if answered properly; the marks are organized as follows:

Term	Matching Definition
Common Type System	C
Postback	D
Common Language Specification	A
Namespace	B

Definition
A Common Language Runtime specification for a minimal set of data types that all languages support
A string that is used to uniquely identify a type
A specification for defining a wide variety of types of data in the Common Language Runtime
When data in an HTML form is sent to the same page on the server that generated the form

Question 3: This question is attributed with 4 marks if answered properly, The complete code for this question as the following:

Question 3.a:

```
private void Page_Load(object sender, System.EventArgs e)
{
    System.Web.UI.MobileControls.SelectionList s1;
    System.Web.UI.MobileControls.Link lk;
    System.Web.UI.MobileControls.Command c;
    c = new Command( );
    lk = new Link ( );
    s1 = new SelectionList ();
    lk.Text = "Go to wap.Amazon.com";
    lk.NavigateUrl = "wap.amazon.com";
    s1.SelectType = ListSelectType.CheckBox;
    s1.Items.Add("Credit");
    s1.Items.Add("Cash");
}
```

(0.5 marks)

(0.5 marks)

(0.5 marks)

```

s1.Items.Add("Debit");
c.Text = "Hide Mobile Controls";
c.Click+=new EventHandler(c_Click);
this.Form1.Controls.Add(lk);
this.Form1.Controls.Add(s1);
this.Form1.Controls.Add(c);
}

```

(1 mark)

(0.5 marks)

Question 3.b:

```

private void c_Click(object sender, EventArgs e)
{
    this.Form1.Controls.Clear( );
}

```

(1 mark)

Question 4: This question is attributed with 7 marks if answered properly,
The complete code for this question as the following:

Question 4.1

(3 marks)

```

public class Grades
{
    private string course;
    private int mark;
    private double coursenumber;
    public Grades (string course, int mark, double coursenumber)
    {
        this.course = course;
        this.mark = mark;
        this.coursenumber = coursenumber;
    }
    public string Course
    {
        get {return course; }
        set {course = value;}
    }
    public int Mark
    {
        get {return mark; }
        set {mark = value; }
    }
    public double CourseNumber
    {
        get {return coursenumber;}
        set {coursenumber = value;}
    }
}

```

(0.5 mark)

(1 mark)

(1.5 marks)

Question 4.2

(4 marks)

```

private void Page_Load(object sender, System.EventArgs e)
{
    ArrayList Stud = new ArrayList();
    Grades G1 = new Grades ("C#", 75, 731311);
    Grades G2 = new Grades ("ASP.NET", 46, 731444);
    Grades G3 = new Grades ("vb.net", 66, 731555);
    Grades G4 = new Grades ("J#", 98, 731666);
    Stud.Add(G1);
    Stud.Add(G2);
    Stud.Add(G3);
    Stud.Add(G4);
    Response.Write("<table border = 5>");
    Response.Write ("<tr><td>Course Name</td>
        <td>CourseNumber</td><td>Course Mark</td><tr>");
    foreach(Grades G in Stud)
    {
        Response.Write("<tr><td>"+G.Course + "</td>");
        Response.Write("<td>"+G.CourseNumber + "</td>");
        Response.Write("<td>"+G.Mark + "</td></tr>");
    }
    Response.Write("</table >");
}

```

(1 mark)

(1 mark)

(2 marks)