

END OF SEMESTER I EXAMINATION ACADEMIC YEAR 2017-2018**YEAR: III SEMESTER: I****MODULE: Dot Net Applications Developments****DATE: / Jan /2018****TIME: 2 hours****MAXIMUM MARKS = 50**

INSTRUCTIONS

1. This paper contains **FOUR (4)** questions.
2. **Answer THREE (3) Questions only:**
Question ONE (1) from Section "A" is Compulsory and Answer any TWO (2) from Section "B"
3. No written materials allowed.
4. Do not forget to write your Registration Number.
5. Write all your answers in the booklet provided
6. Do not write any answers on this questions paper.

ITE3162 - .NET APPLICATIONS DEVELOPMENT

Duration: 2 hrs.

Maximum Marks: 50

SECTION A

Compulsory questions:

(Total= 20 marks)

I.

- a) Create a connection string of a MySQL database entitled 'collegeDB' hosted locally, with root as the username and @1234# as the password. [1 Mark]
- b) Differentiate the following: [6 Marks]
 - i. ExecuteReader() and ExecuteNonQuery()
 - ii. Data Adapter and Datable in .Net Environment
 - iii. Console Application and Windows Form Application
- c) Use a Diagram to explain the process of code compilation and Execution in .NET [4 Marks]
- d) Name any two types of reports used in .Net Applications [3Marks]
- e) What do u understand by the following terms: [4Marks]
 - i. Treeview control
 - ii. SplitContainer
 - iii. Connection String
 - iv. Namespace

SECTION B

Answer any two questions:

(2* 15 marks each = 30 marks)

II.

- a. List the steps to follow when adding a new resource in a C# windows form project. [2 marks].
- b. Use a diagram to illustrate the difference between ADO connection oriented model and Disconnected Model. [5 marks]
- c. Briefly explain the role of the following C# method. [8 marks]

```
private void treeView_emp_AfterSelect(object sender, TreeViewEventArgs e)
{

    switch (treeView_emp.SelectedNode.Name)
    {
        case "Node_add_emp":
            frmAddEmployee frm = new frmAddEmployee();
            frm.TopLevel = false;
            frm.Visible = true;
            frm.Dock = DockStyle.Fill;
            frm.FormBorderStyle = System.Windows.Forms.FormBorderStyle.None;
            this.splitCon_Emp.Panel2.Controls.Clear();
```

```

        this.splitCon_Emp.Panel2.Controls.Add(frm);
        break;
    case "Node_add_dept":
        frmAddDepartment frm_dept = new frmAddDepartment();
        frm_dept.TopLevel = false;
        frm_dept.Visible = true;
        frm_dept.Dock = DockStyle.Fill;
        frm_dept.FormBorderStyle = System.Windows.Forms.FormBorderStyle.None;
        this.splitCon_Emp.Panel2.Controls.Clear();
        this.splitCon_Emp.Panel2.Controls.Add(frm_dept);
        break;
    case "Node_report_users":
        frm_report_users frm_rpt_users = new frm_report_users();
        frm_rpt_users.TopLevel = false;
        frm_rpt_users.Visible = true;
        frm_rpt_users.Dock = DockStyle.Fill;
        frm_rpt_users.FormBorderStyle = System.Windows.Forms.FormBorderStyle.None;
        this.splitCon_Emp.Panel2.Controls.Clear();
        this.splitCon_Emp.Panel2.Controls.Add(frm_rpt_users);
        break;
    default:
        this.splitCon_Emp.Panel2.Controls.Clear();
        break;
    }

    if(treeView_emp.SelectedNode.Name == "Node_add_emp"){

    }
}

```

III.

Consider the database credentials and table structure below and answer questions related to it.

Courses (course_id varchar(100), courseTitle varchar(200), Credit int(11))

Mysql Database Credentials:

Server: localhost

Username: root

Password: @12345#

Database: CollegeDB

- a. Write a C# code (using ADO Connection Oriented Model) that would display the table information in a Data Grid View called dataGridView1 on a form. (no need to indicate the namespaces in your script). [9marks]

- b. Write C# code (using ADO Connection Oriented Model) that would insert the following course in the Courses table.

Course id: ITE3162, Course Title: Dot Net Applications Dev, Credit: 10.

[6marks]

- IV. Rewrite the following Method and correct both syntax and logical errors you see. [15 marks]

```
private void btnAddEmployee_Click(object sender, EventArgs e)
{
    string src = "host=localhost;user=root;database=myDB;";
    MySqlConnection con = new MySqlConnection(src);
    MySqlDataAdapter da = new MySqlDataAdapter("SELECT * FROM EMPLOYEES");
    MySqlCommandBuilder cmb = new MySqlCommandBuilder();
    da.Fill(ds,"EMPLOYEES");
    ds.Tables[0].Constraints.Add("Empno_PK", ds.Tables[0].Columns[0], true);
    DataRow row;
    row = ds.Tables[0].NewRow();
    row["empNo"] = txtEmpNumber.Text;
    row["empName"] = txtEmpName.Text;
    row["salary"] = txtEmpSalary.Text;
    ds.Tables[0].Rows.Add(row);
    da.Update(ds.Tables[0]);

    MessageBox("Employee Record Added Successfully", title);
}
```

ALL THE BEST