

ITSE 1430 (DL)- Fall 2016
Quiz 4- Chapters 18-23 & Notes
Total Points: 50

Due: Tuesday December 13th @ 11:59PM. Look at Syllabus/ICR on late work.

Directions: For Questions 1-25, clearly mark answers on a separate word (or notepad) document. See sample file/directions provided by your professor and submit to the appropriate location on the MyTCC (BlackBoard) site.

— Assume all variables are properly declared- unless otherwise mentioned.

Multiple Choice. Mark the one best answer for each question. (2 pts. each)

1. The connection string below is associated with which type of database?

```
string sConnection =  
    "Provider=Microsoft.ACE.OLEDB.12.0;" +  
    "Data Source=member.accdb";
```

- | | |
|---------------|-----------|
| A. Jet | C. Oracle |
| B. SQL Server | D. Access |

2. Using the segment of code above, what is member.accdb?

- | | |
|--------------------------------------|-----------------------------------|
| A. the name of an Access Database | C. the name of an Access table |
| B. the name of a SQL Server Database | D. the name of a SQL Server table |

3. XML is most commonly used to:

- A. communicate with wireless devices
- B. Store and format data for exchange between apps.
- C. display information on the Internet
- D. validate HTML files.

4. What data will be returned when the following query expression is executed?

```
public class Department
{
    public int DepartmentID;
    public string DepartmentName;
    public string Chairman;
}

public class Student
{
    public int StudentID;
    public string LastName;
    public string FirstName;
    public int DepartmentID;
    public int UnitsCompleted;
}

List<Student> studentList = StudentDB.GetStudents();
List<Department> departmentList = DepartmentDB.GetDepartments();
var students = from student in studentList
                join department in departmentList
                on student.DepartmentID equals department.DepartmentID
                orderby department.DepartmentName, student.LastName,
                        student.FirstName
                select new {department.DepartmentName,
                        student.LastName, student.FirstName};
```

- A. All the fields from all the Department and Student objects
 - B. The DepartmentID and DepartmentName fields from all the Department objects, and the DepartmentID LastName, and FirstName fields from all the Student objects
 - C. The DepartmentName field from all the Department objects, and the LastName and FirstName fields from all the Student objects
 - D. The DepartmentName field from all the Department objects with matching DepartmentID fields in one or more Student objects, and the LastName and FirstName fields from all the matching Student objects
5. All of the following are core classes that make up the ADO.NET data providers EXCEPT ____.
- A. Connection
 - B. Command
 - C. DataReader
 - D. DataSet
6. Which of the following declarations could be used for a method in a database class that deletes an employee row in a database table and returns a true/false value if the operation was successful? Assume that this method enforces optimistic concurrency.
- A. public static bool DeleteEmployeeData(int employeeID)
 - B. public static bool DeleteEmployeeData(Employee employee)
 - C. public static int DeleteEmployee(int employeeID)
 - D. public static int DeleteEmployee(Employee employee)

7. To get the value of an attribute when you're using an `XmlReader` object to read an XML document, you can use the
- A. `ReadStartElement`, `ReadAttributeValue`, and `ReadEndElement` methods
 - B. `ReadAttribute` method
 - C. `Attribute` property
 - D. the indexer with a name argument
8. In a LINQ statement, the keyword ____ indicates the collection or sequence from which data will be drawn.
- A. `select`
 - B. `like`
 - C. `from`
 - D. `where`
9. ASP.NET pages end with a(n) ____ file extension.
- A. `.asp`
 - B. `.net`
 - C. `.asmx`
 - D. `.aspx`
10. The first tag in an XML document defines the
- A. parent element
 - B. child element
 - C. root element
 - D. XML declaration
11. What kind of exception is thrown if there's a problem opening or creating a `StreamWriter`?
- A. `Exception`
 - B. `StreamException`
 - C. `OpenAndCreatingException`
 - D. `IOException`
12. In the statement that follows, the `FillByCustomerID` method
- ```
this.customersTableAdapter.FillByCustomerID(
 this.mmaBooksDataSet.Customers, customerID);
```
- A. loads the `Customers` table in the dataset with data from the database in `customerID` sequence
  - B. loads the `Customers` table adapter with data from the database
  - C. loads the `Customers` table with one row from the database
  - D. loads the `Customers` table adapter with one row from the database
13. The content for an XML element is coded
- A. between the opening bracket and the closing bracket for the tag
  - B. within the start tag for the element
  - C. after the end tag for the element
  - D. between the start tag and end tag for the element
14. The binding source synchronizes the data between the
- A. bound controls and the binding navigator toolbar
  - B. bound controls and the table in the dataset
  - C. bound controls and the table in the database
  - D. bound controls and the table adapter
15. What method of the `BinaryReader` class do you use to read an `int` value from a binary file?
- A. `Read`
  - B. `ReadInt`
  - C. `ReadInt32`
  - D. `ReadInt64`
16. Microsoft Corporation developed the \_\_\_\_ Project to provide database queries that can be used in C# and Visual Basic.
- A. OLE
  - C. XDBC

B. JDBC

D. LINQ

17. When you use a data source, the SQL statements that are used to retrieve and update rows can be found in the `SelectCommand` and `UpdateCommand` properties of the

- A. table adapter
- B. binding source
- C. data source
- D. dataset

18. If the path variable contains a string that refers to an existing file, what does the following code do?

```
FileStream fs = new FileStream(path, FileMode.Open, FileAccess.Write);
```

- A. Opens the file so data can be read from it, but not written to it
- B. Opens the file so data can be written to it, but not read from it
- C. Opens the file and only allows other applications to open it for writing
- D. Opens the file and prevents other applications from opening it

19. To execute a query, you typically code a

- A. foreach statement
- B. for statement
- C. do-while statement
- D. while statement

20. When you use a data source with individual controls instead of a `DataGridView` control, you can do all but one of the following. Which one is it?

- A. use text boxes to display the values in the fields of each row in a table
- B. use a toolbar to navigate from one row to another
- C. use labels to identify the data for each row
- D. code exception handlers for `DataError` events

21. Which of the following code fragments does not use a named variable?

- A. `WHERE MovieID = @MovieID`
- B. `WHERE Title = :MovieTitle`
- C. `WHERE MovieYear = ?`
- D. `WHERE Code = @MovieCode AND Title = @MovieTitle`

22. What data type is assigned to the variable named `gradeList` in the following example?

```
decimal[] grades =
 new decimal[8] {3.543m, 2.875m, 3.75m, 4m, 2.165m, 2.841m, 3.625m,
 3.056m};
```

```
var gradeList = from grade in grades
 where grade >= 3
 orderby grade descending
 select grade;
```

- A. string
- B. decimal
- C. IEnumerable
- D. IEnumerable<decimal>

23. What type of exception can be prevented by using the `Exists` method of the `File` class?
- A. `IOException`
  - B. `EndOfStreamException`
  - C. `FileNotFoundException`
  - D. `MethodNotFoundException`
24. When you use a data source to get data from a database, you can
- A. select just one table with all of its columns
  - B. select one or more tables with all of their columns
  - C. select just one table and just the columns that you want
  - D. select one or more tables with just the columns that you want from each table
25. Which of the following cannot be set in a SQL Server connection string?
- A. security type
  - B. command type
  - C. database name
  - D. server name

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**Extra Credit:** Implement the following program. Follows same program guidelines and graded on the same scale as program sets. Submit only your project file- no test runs required. Partial credit given. (10 points)

Write a C# console application to read in a dictionary from a file, and prompts the user for two words and tells the user how many words in the dictionary fall between those two words. Check for the same words and case-sensitivity. Let the user input the file name from the keyboard. File provided by the instructor. Output should look similar to below.

**Sample Run:**

Enter the filename: dict.txt

Enter two words: goodbye hello

There are 4418 words between goodbye and hello

Name the program: WordDiffXX.cs, where XX are your initials.