

XXXXXXX company written Exam Questions

The number of marks for a question are in parentheses at the end of the question. In the event of multiple choice the number of answers does not necessarily equal the mark value of the question.

1. *What is Application_Start used for? (2)*

It is used to initialize values or perform actions when the ASPX application starts up.

2. *Application and Session are good for storing different types of information. In a shopping website, what would be good to store in the Application object and what would be good to store in the Session object? (3)*

Session is for storing user specific information and application is used for storing application level, i.e. above the user, level information.

Session would be used to store the shopping cart, where as application would be used to store cached inventory.

3. *Sometimes when MyObject.SomeSubroutine is called it throws one of three exceptions: SqlException, MyException or Exception. Write code that shows MyObject.SomeSubroutine being called with the appropriate exception handling that shows where each of the exceptions above would be handled. (5)*

Try

MyObject.SomeSubroutine()

Catch e as SqlException

```
...  
Catch e as MyException  
...  
Catch e as Exception  
...  
End Try
```

4. *What is a server control? Give 2 points (2)*

An asp.net construct that encapsulates the responsibility of how it displays itself and responds to user events by launching server side events. It is able to be fully utilized through properties and methods.

5. *What is the difference between Tracing and Debugging in asp.net? Give 3 points (3)*

- Debugging is only used for debug compilation because it is stripped out in Release compilation.
- Tracing stays in the code but is just not run if tracing is turned off
- Tracing can be turned on at the page or site level

6. *A junior developer tells you that they have setup the error page for their site in their web.config file. However, they don't know what code to put on the error page to get the error and put the .Message of the exception in Label1.Text. Write the code for the error page. (5)*

```
Dim e as Exception  
E = Server.GetLastError()
```

Server.ClearError()

Label1.Text = e.message

7. Circle all of following that are false about XML and HTML (3)

a. Xml is a hierarchical format

b. HTML is a good presentation and data format

c. HTML has an xml schema definition

d. Server Controls send/render XML to the browser

e. HTML Controls send/render HTML to the browser

f. HTML and Xml both allow user defined tags

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8. Name 3 things that can be done from the web.config file (3)

- Tracing turned on, off
- Specifying Authentication method
- Specifying Authorization to the site.

9. What are Web Services and how is it different from a website? (5)

An industry-standards (XML) based way for systems to exchange information independent of the platform of implementation.

Web Services have no user interface, they exchange SOAP messages, which are XML.

10. Web Services are based on 4 international open standards. Name two and how they are used (4)

SOAP, WDSL

11. Circle all of the valid authentication modes accepted in web.config for the Authentication tag (3)

- a. WinXP
- b. Forms**
- c. Basic
- d. Custom

e. *Liberty*

f. **Windows**

g. *Database*

h. **Passport**

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12. Will the following allow/deny authorization tags allow a user named Joe to access the site? Yes or No and why (3)

`<deny users="?" />`

`<allow users="Joe" />`

`<deny users="*" />`

Yes. Because the deny all only comes after the allow Joe.

13. Write the least number of allow/deny tags that allows the following: (5)

- a. all users in the Administrators role have access
- b. no anonymous users are allowed
- c. users with the following user names are not allowed : Joe, Bill
- d. a user with the user name Margaret is allowed access
- e. all other users are denied access

`<deny users="?" />`

`<allow roles="Administrators" />`

`<allow users="Margaret" />`

`<deny users="*" />`

14. Which of the following code samples shows polymorphism? (3)

a. `dim foo as FooObject`

`dim cool as CoolObject`

`foo = new foo()`

`cool = foo.GetCoolVersion()`

b. `dim foo as FooObject`

`dim cool as CoolObject`

`foo = new Foo()`

`cool = foo`

c. `public class Foo`

`inherits otherClass`

`...`

`end class`

d. `public class Foo`

`item as string`

`public sub BuyIt()`

`...`

`end sub`

`end class`

15. What objects are involved in connecting to a database? Explain how they are used together to get data back from the database. Assume that the query you need to issue is "Select * from Products" (10)

16. A Dataset points to live data on the database, rather than being disconnected like a DataReader. True or **False** (2)

17. Give an XML representation of a building, with a number of rooms, average ceiling height, cost per square foot, and tenants (people who rent a room in the building) where each tenant has a name and amount of rent they pay per month. Assume 2 tenants in your example. (10)



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