

The preview shows how the test is presented to participants. You can also see the correct answers for all questions except free text answers. No correct answers are shown to participants when they complete the test.

Total max score: 30

Pair the following functions on a DBCommand object with their correct description.

Correct answer

ExecuteNonQuery()	Execute a write operation
ExecuteReader()	Execute a full read operation
ExecuteScalar()	Single value lookup

Max score: 3

Describe the purpose of views in an MVC application.

Max score: 2

What is the difference between strongly typed and dynamic views in MVC applications?

Describe the difference by giving examples.

Max score: 4

Describe the main difference between a Web API project and a MVC project in .NET

Max score: 2

When designing a database, choosing the right data type is critical. During a web shop development, a developer needs to store User ID of a customer, price of a product, a hashed password, users email address and a very long product description. What data types should be used? Drag the blocks into place.

**Correct answer**

Integer	User ID
Price	Decimal
Char	Hashed password
TEXT	Long description text

Varchar

E-mail

Max score: 2

What is the purpose of hashing passwords?

- ☐ Hashing makes sure that users choose a password that is not simple to guess
- ☐ Hashing is a two-way encryption, meaning that the encrypted value can be decrypted, and that is needed when you want to verify somebody's login credentials
- ☐ The password is encrypted before it's transferred to the web server. Therefore, if somebody is spying on the traffic stream between the client and the server, the password will not be clearly visible to the attacker
- ☐ If the database is stolen, all the users' passwords are encrypted and not visible to the attacker
- ☐ Hashing makes sure that now two users choose the same password

Max score: 2

Describe the difference between the HTTP methods GET and POST. Also, give examples on when to use each method.

Max score: 3

When creating a page that will allow users to add products to the product catalog in asp.net MVC, which actions do you take. You can assume that you are using the default routing and folder structure.

☐ Add a class to the Controllers folder and name it Catalog, add a method called AddProduct to this class.

☐ Add a new folder to the Views folder and name it Product. Create a new view in the folder and name that view Add.

☐ Add a class to the Controllers folder and name it ProductController, add a method called Add to this class.

☐ Add a new folder to the Views and name it AddProduct. Create a view in the folder and name that view Catalog.

Max score: 2

You are writing an action method inside a controller. You want to pass a string value to the view and display that value on the page. What actions do you take?

☐ You can use the ViewData collection to pass data to the view

☐ Add the string value to the model as a dynamic member to the model class.

☐ Pass the string value when you construct the view class

Max score: 1

In an action method (a) you need to call an action method (b) of another controller as the result of your action method (a). Which line of code accomplishes this?

☐ return Content("Controller.Method")

☐ return View ("Controller.Method")

☐ Response.Redirect("Method")

☐ return Redirect("Controller/Method")

Max score: 1

When deploying a web site. Which of the following will allow you to upload files to a remote server?

<input checked="" type="checkbox"/> FTP	<input type="checkbox"/> Remote HTTP	<input type="checkbox"/> File system	<input type="checkbox"/> Local HTTP

Max score: 1

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Describe the purpose of the following techniques/languages and where they are executed.

- HTML
- C#
- JavaScript
- SQL

Max score: 4

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asp.net comes with a couple of classes to help you store data between pages and requests. Describe the purpose and difference between:

- A Session object
- A Application object
- The cookies Collection

Max score: 3