



70-494^{Q&As}

Re for MCSD: Web Applications

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QUESTION 1

You are designing an HTML5 website.

You need to design the interface to make the content of the web page viewable in all types of browsers, including voice recognition software, screen readers, and reading pens.

What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Annotate HTML5 content elements with Accessible Rich Internet Application (ARIA) attributes.
- B. Convert HTML5 forms to XForms.
- C. Ensure that HTML5 content elements have valid and descriptive names.
- D. Use HTML5 semantic markup elements to enhance the pages.
- E. Use Resource Description Framework (RDF) to describe content elements throughout the entire page.

Correct Answer: AD

QUESTION 2

The service has been deployed to Windows Azure.

Trey Research has provided version 1.3.0.0 of the assembly to support a change in the serialization format. The service must remain available during the transition to the new serialization format.

You need to ensure that the service is using the new assembly.

Which configuration setting should you add to the web.config? (To answer, drag the appropriate configuration elements to the correct location or locations in the answer area. Each configuration element may be used once, more than once, or

not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:



codeBase version="1.3.0.0" href="Trey.Serialization.dll"

bindingRedirect oldVersion="1.2.5.0" newVersion="1.3.0.0"

bindingRedirect oldVersion="1.2.0.0" newVersion="1.3.0.0"

runtime

location

< >

<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
 <dependentAssembly>
 <assemblyIdentity name="Trey.Serialization" />

 < >

 </dependentAssembly>
</assemblyBinding>

</ >

Correct Answer:



```
codeBase version="1.3.0.0" href="Trey.Serialization.dll"
bindingRedirect oldVersion="1.2.5.0" newVersion="1.3.0.0"
bindingRedirect oldVersion="1.2.0.0" newVersion="1.3.0.0"
runtime
location

< runtime >

<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
  <dependentAssembly>
    <assemblyIdentity name="Trey.Serialization" />
    <
      codeBase version="1.3.0.0" href="Trey.Serialization.dll"
    >
  </dependentAssembly>
</assemblyBinding>

</ runtime >
```

QUESTION 3

You need to configure the server to self-host the bookstore's Web API application. Which code segment should you use?



- ☐ A.

```
var config = new HttpSelfHostConfiguration(_baseAddress);
config.Filters.Add(
    name: "DefaultApi",
    routeTemplate: "api/{controller}/{id}",
    defaults: new { id = RouteParameter.Optional }
);
var server = new HttpSelfHostServer(config);
server.Wait().OpenAsync();
```
- ☐ B.

```
var config = new HttpSelfHostConfiguration(_baseAddress);
config.Routes.MapHttpRoute(
    name: "DefaultApi",
    routeTemplate: "{controller}s/{id}",
    defaults: new { id = RouteParameter.Optional }
);
var server = new HttpSelfHostServer(config);
server.OpenAsync().Wait();
```
- ☐ C.

```
var config = new HttpSelfHostConfiguration(_baseAddress);
config.Routes.MapHttpRoute(
    name: "DefaultApi",
    routeTemplate: "api/{controller}s/{id}",
    defaults: new { id = RouteParameter.Optional }
);
var server = new HttpSelfHostServer(config);
server.OpenAsync().Wait();
```
- ☐ D.

```
var config = new HttpSelfHostConfiguration(_baseAddress);
config.Routes.MapHttpRoute(
    name: "DefaultApi",
    routeTemplate: "{controller}/{id}",
    defaults: new { id = RouteParameter.Optional }
);
var server = new HttpSelfHostServer(config);
server.Wait().OpenAsync();
```



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 4

You develop a new ASP.NET MVC web application. The application is hosted in an Azure Web Role. It includes the following code. Line numbers are included for reference only.



```
01 public override void OnStop()
02 {
03     Trace.TraceInformation("OnStop called within Web Role");
04     var performanceCounterCurrentRequests = new PerformanceCounter("ASP.NET", "Requests Current", "");
05     while (true)
06     {
07         var currentRequestsCount = performanceCounterCurrentRequests.NextValue();
08         Trace.TraceInformation("ASP.NET Requests Current - " + currentRequestsCount);
09         if (currentRequestsCount <= 0)
10         {
11             break;
12         }
13         System.Threading.Thread.Sleep(1000);
14     }
15 }
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Hot Area:

Answer Area

Yes No

When the web server is so busy that the pending requests cannot be completed in five minutes, the Web role is shut down.	<input type="radio"/>	<input type="radio"/>
When an unhandled exception occurs within the Web role, the Stopping event is raised, and the OnStop method code runs.	<input type="radio"/>	<input type="radio"/>
The Web role initiates a shutdown immediately following the return of the OnStop method code.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Yes No

When the web server is so busy that the pending requests cannot be completed in five minutes, the Web role is shut down.	<input checked="" type="radio"/>	<input type="radio"/>
When an unhandled exception occurs within the Web role, the Stopping event is raised, and the OnStop method code runs.	<input type="radio"/>	<input checked="" type="radio"/>
The Web role initiates a shutdown immediately following the return of the OnStop method code.	<input checked="" type="radio"/>	<input type="radio"/>

QUESTION 5

You are developing an ASP.NET Web API application that will be consumed by a web browser via a composite application that is served from another web domain.

You need to configure the Web API.

What should you do? (To answer, drag the appropriate XML elements to the correct location or locations in the answer area. Each XML element may be used once, more than once, or not at all. You



may need to drag the split bar between panes or scroll to view content.)

Select and Place:

```
<httpProtocol>
  <customHeaders>
    <add name="Access-Control-Allow-Origin"
      value="
    "/>
    <add name="
      "
    >
      value="PUT, DELETE"/>
    <add name="
      "
    >
      value="
    "/>
  </customHeaders>
</httpProtocol>
```

Correct Answer:

```
<httpProtocol>
  <customHeaders>
    <add name="Access-Control-Allow-Origin"
      value="*"
    "/>
    <add name="Access-Control-Allow-Methods"
      "
    >
      value="PUT, DELETE"/>
    <add name="Access-Control-Allow-Headers"
      "
    >
      value="Content-Type"
    "/>
  </customHeaders>
</httpProtocol>
```

QUESTION 6

You are developing a RESTful application by using ASP.NET MVC. The application is a pet management system and implements the following method in a controller for retrieving pet data.



```
public Pet Get(int id)
{
    return new PetRepository().GetPetById(id);
}
```

The method must only accept JSON data using the standard MIME type.

You need to implement a controller that saves pet data and return a properly formatted HTTP/1.1 protocol response.

You have the following code:

```
public Target 1 Post ()
{
    if (Request.Content.Headers.ContentType.MediaType !=
        Target 2)
    {
        throw new HttpResponseException(JsonMessage);
    }
    Pet pet = new Pet ();
    var response = new Target 3 (pet,
        HttpStatusCode.Created);
    var relativePath = Target 4 ;
    response.Headers.Location = new Uri (Request.RequestUri,
        relativePath);
    return response;
}
```

Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to complete the code? {To answer, drag the appropriate code segments to the correct targets in the answer area.

Each code segment may be used once, more than once, or not at all.

You may need to drag the split bar between panes or scroll to view content.)

Select and Place:



Code Segments	Answer Area
<input type="text" value="ActionResult"/>	Target 1: <input type="text" value="Code Segment"/>
<input type="text" value="HttpResponseMessage<Pet>"/>	Target 2: <input type="text" value="Code Segment"/>
<input type="text" value="HttpMessageContent"/>	Target 3: <input type="text" value="Code Segment"/>
<input +="" pet.id"="" type="text" value="/api/get/pet/"/>	Target 4: <input type="text" value="Code Segment"/>
<input +="" pet.id"="" type="text" value="/pet/get/"/>	
<input +="" pet.id"="" type="text" value="/api/pet/"/>	
<input type="text" value="text/json"/>	
<input type="text" value="json"/>	
<input type="text" value="application/json"/>	

Correct Answer:

Code Segments	Answer Area
<input type="text" value="ActionResult"/>	Target 1: <input type="text" value="HttpResponseMessage<Pet>"/>
<input type="text" value="HttpResponseMessage<Pet>"/>	Target 2: <input type="text" value="application/json"/>
<input type="text" value="HttpMessageContent"/>	Target 3: <input type="text" value="HttpResponseMessage<Pet>"/>
<input +="" pet.id"="" type="text" value="/api/get/pet/"/>	Target 4: <input +="" pet.id"="" type="text" value="/api/pet/"/>
<input +="" pet.id"="" type="text" value="/pet/get/"/>	
<input +="" pet.id"="" type="text" value="/api/pet/"/>	
<input type="text" value="text/json"/>	
<input type="text" value="json"/>	
<input type="text" value="application/json"/>	



QUESTION 7

You need to ensure that only valid parameters are passed to the EditLog action.

How should you build the route? (To answer, select the appropriate options in the answer area.)

Hot Area:



Work Area

```
routes.MapRoute(  
    name: "EditLog",  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
{  
    controller = "RunLog",  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
},  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
{  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
}  
);
```



Correct Answer:



Work Area

```
routes.MapRoute(  
    name: "EditLog",  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
{  
    controller = "RunLog",  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
},  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
{  
    id = @"\d+",  
    url: "RunLog/EditLog/{id}",  
    action = "EditLog",  
    defaults: new  
    constraints: new  
}  
);
```


**QUESTION 8**

You are developing a controller for an ASP.NET MVC application that manages message board postings.

The security protection built in to ASP.NET is preventing users from saving their HTML.

You need to enable users to edit and save their HTML while maintaining existing security protection measures.

Which code segment should you use?

- ☐ A.

```
[ValidateInput(false)]
public class MessageBoardController : Controller
{
    public ActionResult SavePosting(MessageBoardPosting mbp)
    {
        SaveMessageBoardPosting(mbp);
        return View("ManagePosting");
    }
}
```
- ☐ B.

```
public class MessageBoardController : Controller
{
    [ValidateInput(true)]
    public ActionResult SavePosting(MessageBoardPosting mbp)
    {
        SaveMessageBoardPosting(mbp);
        return View("ManagePosting");
    }
}
```
- ☐ C.

```
[ValidateInput(true)]
public class MessageBoardController : Controller
{
    public ActionResult SavePosting(MessageBoardPosting mbp)
    {
        SaveMessageBoardPosting(mbp);
        return View("ManagePosting");
    }
}
```
- ☐ D.

```
public class MessageBoardController : Controller
{
    [ValidateInput(false)]
    public ActionResult SavePosting(MessageBoardPosting mbp)
    {
        SaveMessageBoardPosting(mbp);
        return View("ManagePosting");
    }
}
```



A. Option A



B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 9

Data provided by Consolidated Messenger is cached in the HttpContext.Cache object.

You need to ensure that the cache is correctly updated when new data arrives.

What should you do?

A. Ensure that the EffectivePrivateBytesLimit value is greater than the size of the database file.

B. Change the sliding expiration of the cache item to 12 hours.

C. Use the SqlCacheDependency type configured with a connection string to the database file.

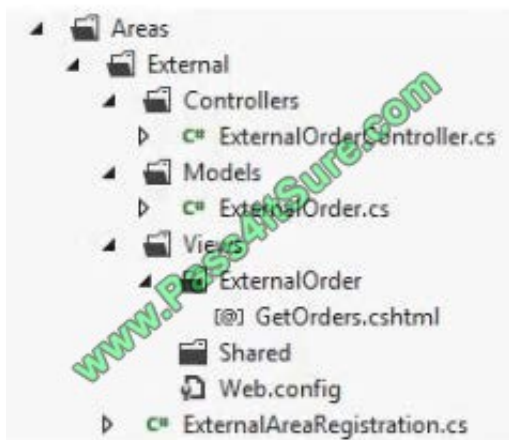
D. Use the CacheDependency type configured to monitor the SFTP target folder.

Correct Answer: D

QUESTION 10

You are developing an ASP.NET MVC application in Visual Studio.

The application contains an area that is defined as shown in the following graphic.



The ActionLink method must invoke the GetOrders() action in ExternalOrderController.

You need to configure the parameters of the ActionLink method.



You have the following markup.

```
<li>
  @Html.ActionLink(
    "ViewExternalOrders",
    Target 1
    Target 2
    new { area = Target 3 }
    ,null
  )
</li>
```

Which markup segments should you include in Target 1, Target 2 and Target 3 to complete the markup? To answer, drag the appropriate markup segment to the correct targets. Each markup segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Select and Place:

Markup Segments

"GetOrders",
"External",
"ExternalOrder",
"ExternalOrderController",

Answer area

Target 1: Markup Segment
Target 2: Markup Segment
Target 3: Markup Segment

Correct Answer:

Markup Segments

"ExternalOrder",

Answer area

Target 1: "GetOrders",
Target 2: "ExternalOrderController",
Target 3: "External",

QUESTION 11

You are developing an ASP.NET MVC web application that enables users to open Microsoft Excel files. The current implementation of the ExcelResult class is as follows.



```
public class ExcelResult : ActionResult
{
    public string Path { get; set; }

    public override void ExecuteResult(ControllerContext context)
    {
        ...
    }
}
```

You need to enable users to open Excel files.

How should you implement the ExecuteResult method? (To answer, select the appropriate options in the answer area.)

Hot Area:

Work Area

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;
```

```
var canProcess = request.AcceptTypes.Contains("application/vnd.ms-excel");
var canProcess = request.ContentType.Contains("application/vnd.ms-excel");
```

```
if (canProcess)
```

```
{
    response.Clear();
```

```
response.AddHeader("content-disposition", "attachment; filename=dl");
response.Output.Write("content-disposition", "application/vnd.ms-excel");
```

```
response.ContentType = "application/vnd.ms-excel";
response.ContentEncoding = new UTF8Encoding
```

```
response.WriteFile(context.HttpContext.Server.MapPath(Path));
```

```
}
```

Correct Answer:



Work Area

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;

var canProcess = request.AcceptTypes.Contains("application/vnd.ms-excel");
var canProcess = request.ContentType.Contains("application/vnd.ms-excel");

if (canProcess)
{
    response.Clear();

    response.AddHeader("content-disposition", "attachment; filename=dl");
    response.Output.Write("content-disposition", "application/vnd.ms-excel");

    response.ContentType = "application/vnd.ms-excel";
    response.ContentEncoding = new UTF8Encoding

    response.WriteFile(context.HttpContext.Server.MapPath(Path));
}
```

QUESTION 12

You are developing an ASP.NET MVC application. The layout page of the application references the jQuery library. You develop a view that uses the layout page. The view includes the following markup:

```
<div id="newBooks"></div>
<div>
    <input type="button" id="addBookButton" name="addBook" value="Add Book" />
</div>
```

The application includes the following class:

```
public class BookController : Controller
{
    public ActionResult CreateNewBook()
    {
        var bookViewModel = new BookViewModel();
        return PartialView("~/Views/Shared/EditorTemplates/BookViewModel.cshtml", bookViewModel);
    }
}
```

When a user clicks the button, an AJAX call must retrieve the partial view and append it to the newBooks div element.



You need to implement the AJAX request.

How should you complete the relevant code? To answer, select the appropriate code segment from each list in the answer area.

Hot Area:

Answer Area

```
<script language="javascript" type="text/javascript">
  $("#addBookButton").on('click', function () {
    $.ajax({
      dataType: 'html'
      data: 'newBooks'
      context: document.body
      url: '/Book/CreateNewBook'
    }).success(function (partialView) {
      $('#newBooks').html(partialView);
      $('#newBooks').text(partialView);
      $('#newBooks').html = partialView;
      $('#newBooks').append(partialView);
    });
  });
</script>
```

Correct Answer:

Answer Area

```
<script language="javascript" type="text/javascript">
  $("#addBookButton").on('click', function () {
    $.ajax({
      dataType: 'html'
      data: 'newBooks'
      context: document.body
      url: '/Book/CreateNewBook'
    }).success(function (partialView) {
      $('#newBooks').html(partialView);
      $('#newBooks').text(partialView);
      $('#newBooks').html = partialView;
      $('#newBooks').append(partialView);
    });
  });
</script>
```

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