

Node.js: Server-Side Efficiency    Sunbeam

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35. Converting client request data (form values, route data, query string parameters, HTTP headers) into objects that the controller can handle is done by \_\_\_\_\_.

36. ASP.NET Core MVC supports validation by decorating your \_\_\_\_\_ with data annotation validation attributes.

37. The validation attributes are checked on the server \_\_\_\_\_.

38. It is possible to use \_\_\_\_\_ to encapsulate crosscutting concerns and to implement custom logic of pre- and post-processing for action method.

39. It is possible to create \_\_\_\_\_ using embedded C# code, to dynamically generate web content on the server, to combine server code with client code.

40. Using the Razor view engine you can define \_\_\_\_\_ and replaceable sections.

Answers

1. Helper functions
2. Action, Child Action method
3. layouts, partial views
4. All of the above

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Result: **Pass** Questions: **40**  
Marks: **21/40** Correct Answers: **21**  
Percentage: **52.50 %** Attempted: **40**

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1. Identify the class belonging to the System.Collections.Generic namespace from the provided list?

Answers

1. Sorted Array  
2. Tree  
3. Stack  
4. All of the mentioned

2. Which programming construct is suitable for implementing a runtime notification system for an object to generate simple notifications?

3. What condition must be met for the implementation of delegates?

4. What is the main difference between a value type and a reference type?

5. What is the purpose of an interface in C#?

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1. Identify the class belonging to the System.Collections.Generic namespace from the provided list?

2. Which programming construct is suitable for implementing a runtime notification system for an object to generate simple notifications?

### Answers

1. interface  
2. attribute  
3. namespace  
4. delegate

3. What condition must be met for the implementation of delegates?

4. What is the main difference between a value type and a reference type?

5. What is the purpose of an interface in C#?

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1. Identify the class belonging to the System.Collections.Generic namespace from the provided list?

2. Which programming construct is suitable for implementing a runtime notification system for an object to generate simple notifications?

3. What condition must be met for the implementation of delegates?

Answers

1. exceptions  
2. **class declaration**  
3. runtime polymorphism  
4. inheritance

4. What is the main difference between a value type and a reference type?

5. What is the purpose of an interface in C#?

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4. What is the main difference between a value type and a reference type?

### Answers

1. A value type can be any primitive type, while reference types must be type-agnostic.

2. A value type refers to another value, while a reference type refers to a value in memory.

3. A value type stores an actual value, while a reference type is a pointer to a value.

4. A value type is available only at runtime, while a reference type is available only at compile time.

5. What is the purpose of an interface in C#?

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2. Which programming construct is suitable for implementing a runtime notification system for an object to generate simple notifications?

3. What condition must be met for the implementation of delegates?

4. What is the main difference between a value type and a reference type?

5. What is the purpose of an interface in C#?

Answers

1. Interfaces are used to store data.

2. Interfaces define a contract that classes must adhere to, specifying a set of methods and properties that implementing classes must provide.

3. Interfaces are used to create instances of classes.

4. Interfaces are used for code organization.

6. What will be the output of the following C# code snippet?

```
using System;
namespace A{
    delegate void A(ref string str);
    class sample
    {
        public static void fun( ref string a)
        {
```

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6. What will be the output of the following C# code snippet?

```
using System;
namespace A{
    delegate void A(ref string str);
    class sample
    {
        public static void fun( ref string a)
        {
            a = a.Substring( 7, a.Length - 7);
        }
    }
    class Program
    {
        static void Main(string[] args)
        {
            A str1;
            string str = "Test Your C#.net skills";
            str1 = sample.fun;
            str1(ref str);
            Console.WriteLine(str);
        }
    }
}
```

Answers

1. ur C#.NET Skills
2. Test Your
3. ur C#.NET
4. None of the mentioned

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7. What will be the output of following code?

```
using System;
class A
{
    public void Abc(int q)
    {
        Console.WriteLine("Abc from A");
    }
}

class B : A
{
    public void Abc(double p)
    {
        Console.WriteLine("Abc from B");
    }
}

static void Main(string[] args)
{
    int i = 5;
    B b = new B();
    b.Abc(i);
}
```

Answers

1. Abc from A
2. **Abc from B**
3. error
4. None of this

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```
        Console.WriteLine("Abc from B");
    }
    static void Main(string[] args)
    {
        int i = 5;
        B b = new B();
        b.Abc(i);
    }
}
```

8. Which code snippet correctly declares a custom exception named InvalidResponse?

Answers

1. struct InvalidResponse: Exception {}
2. class InvalidResponse: Exception {}
3. public Exception InvalidResponse = new Exception ();
4. public Exception InvalidResponse () -> Exception;

9. In .NET, which modifier is used to prevent inheritance of a class?

10. In the following code, what will be printed by the Console.WriteLine()  
using System;  
namespace test  
{  
 internal class Program

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        B b = new B();
        b.Abc(i);
    }
}
```

8. Which code snippet correctly declares a custom exception named InvalidResponse?

9. In .NET, which modifier is used to prevent inheritance of a class?

Answers

1. Static
2. Constant
3. Sealed
4. final

10. In the following code, what will be printed by the Console.WriteLine()  
using System;  
namespace test  
{  
 internal class Program

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9. In .NET, which modifier is used to prevent inheritance of a class?

10. In the following code, what will be printed by the Console.WriteLine()  
using System;  
namespace test  
{  
 internal class Program  
 {  
 static void Main(string[] args)  
 {  
 string[] str = { "Hello", "!", "World" };  
 Array.Reverse(str);  
 Console.WriteLine(str[0]);  
 }  
 }  
}

Answers

1. "!"  
2. "Hello"  
3. "olleH"  
4. "World"

11. Which concurrency mechanism allows tasks to be executed concurrently without starting a new thread for each task?

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```
internal class Program
{
    static void Main(string[] args)
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        string[] str = { "Hello", "!", "World" };
        Array.Reverse(str);
        Console.WriteLine(str[0]);
    }
}
```

11. Which concurrency mechanism allows tasks to be executed concurrently without starting a new thread for each task?

Answers

- process
- thread queue
- thread pool**
- none of the mentioned

12. How does the CLR contribute to security in .NET applications?

13. Which tool is commonly used for disassembling .NET assemblies and viewing Intermediate Language (IL) code?

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```
Console.WriteLine(str[0]);
}
}
```

11. Which concurrency mechanism allows tasks to be executed concurrently without starting a new thread for each task?

12. How does the CLR contribute to security in .NET applications?

Answers

1. It isolates each application in its own process for enhanced security
2. It encrypts all source code to prevent unauthorized access
3. It restricts the use of external libraries and dependencies
4. It enforces code access security and role-based security permissions

13. Which tool is commonly used for disassembling .NET assemblies and viewing Intermediate Language (IL) code?

14. How does the `async` keyword work?

15. State whether the following statements about the managed and unmanaged code are TRUE or FALSE.  
i) Managed code is the code that is executed directly by the CLR.  
ii) Managed code directly compiles to the machine code and runs on the machine where it has to be compiled.

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Answers

1. ildasm.exe

2. ilasm.exe

3. dumpbin.exe

4. al.exe

14. How does the async keyword work?

15. State whether the following statements about the managed and unmanaged code are TRUE or FALSE.

- i) Managed code is the code that is executed directly by the CLR.
- ii) Managed code directly compiles to the machine code and runs on the machine where it has to be compiled.
- iii) Unmanaged code does not have services such as security or memory management.

16. In which scenario is the use of static local functions most appropriate?

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12. How does the CLR contribute to security in .NET applications?

13. Which tool is commonly used for disassembling .NET assemblies and viewing Intermediate Language (IL) code?

14. How does the async keyword work?

Answers

1. It allows access to asynchronous methods in the C# API.

2. It allows thread pooling and synchronous processes in static classes.

3. It allows access to synchronous methods in the C# API.

4. It allows the await keyword to be used in a method.

15. State whether the following statements about the managed and unmanaged code are TRUE or FALSE.

i) Managed code is the code that is executed directly by the CLR.

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16. In which scenario is the use of static local functions most appropriate?

17. What is the output of following?

```
using System;
class Animal
```

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ii) Managed code directly compiles to the machine code and runs on the machine where it has to be compiled.  
iii) Unmanaged code does not have services such as security or memory management.

Answers

1. i-True, ii-False, iii-False  
2. i-True, ii-False, iii-True  
3. i-False, ii-True, iii-False  
4. i-False, ii-False, iii-True

16. In which scenario is the use of static local functions most appropriate?

17. What is the output of following?  
`using System;  
class Animal`

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- iii) Unmanaged code does not have services such as security or memory management.

16. In which scenario is the use of static local functions most appropriate?

Answers

1. When the function needs to access instance members of the class
2. When the function is only used within a specific method
3. When the function must be called from external classes
4. When the function is part of a public API

17. What is the output of following?

```
using System;
class Animal
{
    public void Eat()
    {
        Console.WriteLine("Animal is eating.");
    }
}
```

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17. What is the output of following?

```
using System;
class Animal
{
    public void Eat()
    {
        Console.WriteLine("Animal is eating.");
    }
}

class Dog : Animal
{
    public void Bark()
    {
        Console.WriteLine("Dog is barking.");
    }
}

class Program
{
    static void Main()
    {
        Dog myDog = new Dog();
        myDog.Bark();
        myDog.Eat();
    }
}
```

Answers

1. Dog is barking. Animal is eating.
2. Animal is eating. Dog is barking.
3. Compilation Error
4. Runtime Error

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18. Consider the following C# code snippet:

```
using System;
public class MyClass
{
    private int _value;

    public int Value
    {
        get;
        set
        {
            if (value > 0)
            {
                _value = value * 2;
            }
            else
            {
                _value = value;
            }
        }
    }
}
```

Which of the following statements is true regarding the Value property?

Answers

1. The property has a custom setter that doubles the input value if it's greater than 0.
2. The property has a custom getter that returns double the stored value.
3. The property is read-only.
4. The property is write-only.

19. What is accurate regarding file streams in the .NET Core?

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```
        if (value > 0)
    {
        _value = value * 2;
    }
    else
    {
        _value = value;
    }
}
```

Which of the following statements is true regarding the Value property?

19. What is accurate regarding file streams in the .NET Core?

Answers

1. File streams are only applicable to text files.

2. File streams are only used for reading files.

3. File streams can only be used for binary files.

4. File streams are used for both reading and writing files.

20. What is the primary purpose of creating custom attributes in .NET?

21. Asp.Net core application has ability to host on the following.

22. \_\_\_\_\_ files allow us to separate the localized content from our code, meaning we can easily swap out different resource files for different languages

23. Which of the following lifetime services are created each time they are requested and works best for lightweight, stateless services?

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}

}

}

Which of the following statements is true regarding the Value property?

19. What is accurate regarding file streams in the .NET Core?

20. What is the primary purpose of creating custom attributes in .NET?

Answers

1. To enhance the performance of the application.

2. To add metadata or information about types and members.

3. To replace the need for classes and methods.

4. To improve security in the application.

21. Asp.Net core application has ability to host on the following.

22. \_\_\_\_\_ files allow us to separate the localized content from our code, meaning we can easily swap out different resource files for different languages

23. Which of the following lifetime services are created each time they are requested and works best for lightweight, stateless services?

24. \_\_\_\_\_ MVC Services Method supports Controllers, Model Binding, API Explorer and UI

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19. What is accurate regarding file streams in the .NET Core?

20. What is the primary purpose of creating custom attributes in .NET?

21. Asp.Net core application has ability to host on the following.

Answers

1. Kestrel  
2. IIS  
3. Apache  
4. All of the Above

22. \_\_\_\_\_ files allow us to separate the localized content from our code, meaning we can easily swap out different resource files for different languages

23. Which of the following lifetime services are created each time they are requested and works best for lightweight, stateless services?

24. \_\_\_\_\_ MVC Services Method supports Controllers, Model Binding, API Explorer and UI

25. Which of the following middleware used to serve files are stored within the project's web root directory i.e. {content root}/wwwroot

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21. Asp.Net core application has ability to host on the following.

22. \_\_\_\_\_ files allow us to separate the localized content from our code, meaning we can easily swap out different resource files for different languages

Answers

1. .asmx
2. .aspx
3. .resx
4. .localx

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19. What is accurate regarding file streams in the .NET Core?

20. What is the primary purpose of creating custom attributes in .NET?

21. Asp.Net core application has ability to host on the following.

22. \_\_\_\_\_ files allow us to separate the localized content from our code, meaning we can easily swap out different resource files for different languages

23. Which of the following lifetime services are created each time they are requested and works best for lightweight, stateless services?

Answers

1. Scoped  
2. Transient  
3. Singleton  
4. Session

24. \_\_\_\_\_ MVC Services Method supports Controllers, Model Binding, API Explorer and UI

25. Which of the following middleware used to serve files are stored within the project's web root directory i.e. {content root}/wwwroot

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24. \_\_\_\_\_ MVC Services Method supports Controllers, Model Binding, API Explorer and UI

Answers

1. `builder.Services.AddControllersWithViews();`
2. `builder.Services.AddControllers();`
3. `builder.Services.AddRazorPages();`
4. All of the above

25. Which of the following middleware used to serve files are stored within the project's web root directory i.e. {content root}/wwwroot

26. The ADO.NET \_\_\_\_\_ is a memory-resident representation of data that provides a consistent relational programming model.

27. In Entity Framework, the \_\_\_\_\_ class represents an entity set that can be used for the database CRUD operation

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25. Which of the following middleware used to serve files are stored within the project's web root directory i.e. {content root}/wwwroot

Answers

1. `app.UseDefaultFiles();`

2. `app.UseAuthorization();`

3. `app.UseStaticFiles();`

4. `app.UseCors()`

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Answers

1. RDBMS
2. Data Reader
3. **DataSet**
4. DataTable

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Answers

1. EntityDataModel
2. DbContext
3. DbSet
4. None of the above

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28. Which of the following development approaches are supported in Entity Framework Core?

Answers

1. Code-First
2. Database-First
3. Model-First
4. Both A and B

29. Which of the following class used as base class for API Controller in ASP.NET MVC Core?

30. By default, every layout must call

31. In ASP.Net MVC Core business logic along with any implementation logic for persisting the state of the application, should be encapsulated in \_\_\_\_\_.

32. Strongly-typed views typically use ViewModel types, designed to contain the data, to display on that view. The \_\_\_\_\_ creates and populates these ViewModel instances.

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28. Which of the following development approaches are supported in Entity Framework Core?

29. Which of the following class used as base class for API Controller in ASP.NET MVC Core?

Answers

1. BaseController
2. ControllerBase
3. Controller
4. RestApiController

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Answers

1. @RenderSection
2. @model
3. @RenderBody
4. @RenderPage

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Answers

1. Model

2. View

3. Controller

4. only C.

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Answers

1. View, Controller

2. Model, Controller

3. View, Model

4. Controller, Model

33. If controller actions frequently perform the same kinds of actions, then we can move these common actions into \_\_\_\_\_.

34. The route definitions are placed next to the \_\_\_\_\_ and \_\_\_\_\_ with which they're associated.

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33. If controller actions frequently perform the same kinds of actions, then we can move these common actions into \_\_\_\_\_.

Answers

1. Model
2. View
3. Filters
4. Helper Functions

34. The route definitions are placed next to the \_\_\_\_\_ and \_\_\_\_\_ with which they're associated.

35. Converting client request data (form values, route data, query string parameters, HTTP headers) into objects that the controller can handle is done by \_\_\_\_\_.

36. ASP.NET Core MVC supports validation by decorating your \_\_\_\_\_ with data annotation validation attributes.

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Answers

1. Model, View
2. Controller, Action
3. Action, Model
4. None of the above

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Answers

1. ViewBag
2. Query String
3. Cookies
4. Model Binding

36. ASP.NET Core MVC supports validation by decorating your \_\_\_\_\_ with data annotation validation attributes.

37. The validation attributes are checked on the server \_\_\_\_\_.

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36. ASP.NET Core MVC supports validation by decorating your \_\_\_\_\_ with data annotation validation attributes.

Answers

1. Controller Object
2. Connection Object
3. Model Object
4. Command Object

37. The validation attributes are checked on the server \_\_\_\_\_.

38. It is possible to use \_\_\_\_\_ to encapsulate crosscutting concerns and to implement custom logic of pre- and post-processing for action method.

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36. ASP.NET Core MVC supports validation by decorating your \_\_\_\_\_ with data annotation validation attributes.

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### Answers

1. before the controller action is called
2. before values are posted to the server
3. after the controller action is called
4. after values are posted to the server

38. It is possible to use \_\_\_\_\_ to encapsulate crosscutting concerns and to implement custom logic of pre- and post-processing for action method.

39. It is possible to create \_\_\_\_\_ using embedded C# code, to dynamically generate web content on the server, to combine server code with client code.

40. Using the Razor view engine you can define \_\_\_\_\_ and replaceable sections.

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38. It is possible to use \_\_\_\_\_ to encapsulate crosscutting concerns and to implement custom logic of pre- and post-processing for action method.

Answers

1. Entity Framework
2. Filters
3. Routing Table
4. Helper Functions

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Answers

- Views
- Razor View
- Action Method
- None of the above

40. Using the Razor view engine you can define \_\_\_\_\_ and replaceable sections.

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40. Using the Razor view engine you can define \_\_\_\_\_ and replaceable sections.

Answers

1. Helper functions
2. Action, Child Action method
3. layouts, partial views
4. All of the above

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