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SR.NO	Project NAME	Technology
1	Online E-Learning Platform Hub	React+Springboot+MySql
2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySql
3	Tour and Travel management System	React+Springboot+MySql
4	Election commition of India (online Voting System)	React+Springboot+MySql
5	HomeRental Booking System	React+Springboot+MySql
6	Event Management System	React+Springboot+MySql
7	Hotel Management System	React+Springboot+MySql
8	Agriculture web Project	React+Springboot+MySql
9	AirLine Reservation System / Flight booking System	React+Springboot+MySql
10	E-commerce web Project	React+Springboot+MySql
11	Hospital Management System	React+Springboot+MySql
12	E-RTO Driving licence portal	React+Springboot+MySql
13	Transpotation Services portal	React+Springboot+MySql
14	Courier Services Portal / Courier Management System	React+Springboot+MySql
15	Online Food Delivery Portal	React+Springboot+MySql
16	Muncipal Corporation Management	React+Springboot+MySql
17	Gym Management System	React+Springboot+MySql
18	Bike/Car ental System Portal	React+Springboot+MySql
19	CharityDonation web project	React+Springboot+MySql
20	Movie Booking System	React+Springboot+MySql

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21	Job Portal web project	React+Springboot+MySql
22	LIC Insurance Portal	React+Springboot+MySql
23	Employee Management System	React+Springboot+MySql
24	Payroll Management System	React+Springboot+MySql
25	RealEstate Property Project	React+Springboot+MySql
26	Marriage Hall Booking Project	React+Springboot+MySql
27	Online Student Management portal	React+Springboot+MySql
28	Resturant management System	React+Springboot+MySql
29	Solar Management Project	React+Springboot+MySql
30	OneStepService LinkLabourContractor	React+Springboot+MySql
31	Vehical Service Center Portal	React+Springboot+MySql
32	E-wallet Banking Project	React+Springboot+MySql
33	Blogg Application Project	React+Springboot+MySql
34	Car Parking booking Project	React+Springboot+MySql
35	OLA Cab Booking Portal	React+Springboot+MySql
36	Society management Portal	React+Springboot+MySql
37	E-College Portal	React+Springboot+MySql
38	FoodWaste Management Donate System	React+Springboot+MySql
39	Sports Ground Booking	React+Springboot+MySql
40	BloodBank mangement System	React+Springboot+MySql
41	Bus Tickit Booking Project	React+Springboot+MySql
42	Fruite Delivery Project	React+Springboot+MySql
43	Woodworks Bed Shop	React+Springboot+MySql
44	Online Dairy Product sell Project	React+Springboot+MySql
45	Online E-Pharma medicine sell Project	React+Springboot+MySql
46	FarmerMarketplace Web Project	React+Springboot+MySql
47	Online Cloth Store Project	React+Springboot+MySql
48		React+Springboot+MySql
49		React+Springboot+MySql
50		React+Springboot+MySql

Time 20 mins

1. Which is the default base class for all classes?

- A. System.object
- B. System.Object**
- C. SystemObject
- D. ObjectSystem

2. How do you specify that a class cannot be used as a base class?

- A. mark it as a struct(struct class My Class{})
- B. change its access specifier from public to any other access specifier(internal class My Class{})
- C. make it abstract (abstract class My Class{})
- D. make it sealed (sealed class My Class{})**

3. This is the correct syntax for overloading the + operator for My Class and a int

- A. public My Class operator+(int a){...}
- B. public static My Class operator+(int a){...}
- C. public My Class operator+(My Class x,int a){...}
- D. public static My Class operator+(My Class x,int a){...}**

4. This is the correct syntax for writing an extension method for a string

- A. public void DoSomething(string a){...}
- B. public IExtension void DoSomething(string a){...}
- C. public static void DoSomething(string a){...}
- D. public static void DoSomething(this string a){...}**

5. What does Array.IndexOf() return if the item being searched is not found?

- A. null
- B. error
- C. Index of the last item + 1
- D. -1**

6. Give the CTS(Common Type System) type for float

- A. System.Float
- B. System.Decimal
- C. System.Single**
- D. System.Double

7. char variables occupy ___ bytes

- A. 1
- B. 2**
- C. 0
- D. 4

8. What is the correct syntax for a lambda that takes no parameters and has multiple line of code

- a. ()=>{code}**
- b. => code

- c. `delegate()`
- d. Not possible to do so

9. For a class to be serialized using the BinaryFormatter,

- A. The class needs to be marked with an attribute `ISerializable`**
- B. The assembly needs to be marked with an attribute `ISerializable`
- C. The class needs to be marked with an attribute `Serializable`
- D. The assembly needs to be marked with an attribute `Serializable`

10. Which of these is correct for the explicit implementation of an interface?

- A. `public void Method1()`
- B. `void Method1()`
- C. `public void InterfaceName.Method1()`
- D. `void InterfaceName.Method1()`**

11. How do you declare a nullable int?

- A. `Nullable int a;`
- B. `int a = null;`
- C. `int? a;` OR `Nullable<T> i = null;`**
- D. `int?? a;`

12. Which interface does `ArrayList` implement?

- A. `IList`**
- B. `IList<T>`
- C. `IDictionary`
- D. `IDictionary<TKey,TValue>`

13. Which of these is the correct syntax for an object initializer?

- a. `Class1 o = new Class1{a=10};`
- b. `Class1 o = new Class1(){a=10};`
- c. `Class1 o = new Class1(20){a=10};`
- d. All of the above**

14. How do you call a function using `ThreadPool`?

- a. `Start`
- b. `Begin`
- c. `Invoke`
- d. `QueueUserWorkItem`**

15. Which of the following statements is false?

- A. A struct does not allow inheritance.
- B. A struct cannot have a no parameter constructor
- C. A struct is a value type
- D. A struct is stored on the stack in memory.
- E. A struct cannot have methods.**

16. In `FormsAuthentication`, the following method deletes the authentication cookie.

- A. `FormsAuthentication.Cookie.Delete`
- B. `FormsAuthentication.Logout`

C. FormsAuthentication.SignOut

D. FormsAuthentication.Cookie.Remove

17. To generate a proxy class for a WCF service we use the following command line utility

- a. genprox
- b. svcutil**
- c. wsdl
- d. csc

18. How do you override the bundling setting of web.config?

- a. write code in BundleConfig.cs and set the EnableOptimizations property of the BundleTable class**
- b. write code in BundleConfig.config and set the EnableOptimizations property of the BundleTable class
- c. write code in BundleConfig.cs and set the EnableOptimizations property of the BundleCollection class
- d. write code in BundleConfig.config and set the EnableOptimizations property of the BundleCollection class

19. To achieve Minification(Minification removes all whitespace and renames variables to their shortest possible name) in asp.net mvc

- a. Set minification = true in compilation section in web.config
- b. Set minification = false in compilation section in web.config
- c. Set debug = true in compilation section in web.config
- d. Set debug = false in compilation section in web.config**

20. To show a partial view in asp.net mvc with a method that returns a html string we use

- a. Html.Partial()**
- b. Html.RenderPartial()
- c. Html.RenderAction()
- d. Html.RenderView()

=====

.Net Mid module test

1. On compilation of CSharp source code, the output we get is

- A. byte code
- B. assembly**
- C. IL
- D. MSIL

2. Jit compilation converts

- A. IL to MSIL
- B. MSIL to IL
- C. source code to IL
- D. source code to native code
- E. none of the above**



3. Garbage collection happens at
- A. regular intervals
 - B. when an object goes out of scope
 - C. when the CLR decides**
 - D. at the end of the code execution
4. App domains are
- A. The area in memory where an application runs
 - B. The area inside a process where an application runs**
 - C. The area where the application has its domain
 - D. On the heap
5. CLS is
- A. a set of rules that all .net compilers follow
 - B. a set of rules that are allowed for a .net language
 - C. a set of rules that all .net languages must follow to be able to be called from other languages**
 - D. used for data types
6. Give the CTS type for float
- A. System.Float
 - B. System.Decimal
 - C. System.Single**
 - D. System.Double
7. char variables occupy ___ bytes
- A. 1
 - B. 2**
 - C. 0
 - D. 4
8. Which of the following statements is True?
- A. Func is used to call methods with a void return type, Action for non void return type methods and Predicate for methods with a bool parameter
 - B. Func is used to call methods with a void return type, Action for non void return type methods and Predicate for methods with a bool return value
 - C. Action is used to call methods with a void return type, Func for non void return type methods and Predicate for methods with a bool parameter
 - D. Action is used to call methods with a void return type, Func for non void return type methods and Predicate for methods with a bool return value**
9. When is the static constructor called?
- A. whenever an object is created
 - B. when the class is loaded**
 - C. when Main is called
 - D. whenever a static method is called
10. Which of the following is true for a static class?
- A. It can only contain static methods



- B. It cannot be instantiated
- C. It cannot be used as a base class
- D. All of the above**
- E. None of the above

11. What is the default access specifier for members in a class?

- A. internal
- B. public
- C. private**
- D. protected

12. What is the default access specifier for a class declared in a namespace?

- A. internal**
- B. public
- C. private
- D. protected

13.

```
class BaseClass
{ int a;
  public BaseClass(int a)
  { this.a = a;}
}
class DerivedClass : BaseClass
{ int b;
  public DerivedClass(int b)
  { this.b = b;}
}
class Program{
static void Main()
    { DerivedClass o = new DerivedClass(10);}
}
```

What is the value in o.a after running this code?

- A. 0
- B. 10
- C. null
- D. code will not compile.**

14. Which of these statements is true?

- A. To overload a function defined in the base class from the derived class we use the overloads keyword
- B. To overload a function defined in the base class from the derived class we use the new (For Method Hiding)keyword
- C. To overload a function defined in the base class from the derived class we use the override keyword
- D. None of the above**

15. Which of these statements is true?

- A. To hide a function defined in the base class from the derived class we use the overloads keyword
- B. To hide a function defined in the base class from the derived class we use the new keyword**
- C. To hide a function defined in the base class from the derived class we use the override keyword
- D. To hide a function defined in the base class from the derived class we use the sealed keyword
- E. None of the above

16. Which of these statements is false?

- A. To override a function defined in the base class from the derived class the base class method must be a virtual method
- B. To override a function defined in the base class from the derived class we use the override keyword
- C. To override a function defined in the base class from the derived class the method signatures must be the same
- D. None of the above**

17. Which of these statements is false?

- A. An abstract class need not have any abstract methods
- B. An abstract class cannot be instantiated
- C. A class that contains at least one abstract method needs to be marked as abstract
- D. A derived class must implement all abstract methods of an abstract base class or the derived class must be marked as abstract
- E. None of the above**

18. Which of these statements is false?

- A. A sealed class cannot be used as a base class
- B. A sealed class can be instantiated
- C. A sealed class cannot have virtual methods
- D. A sealed class cannot have abstract methods
- E. None of the above**

19. Which of these statements is true?

- A. In late binding, we declare an object of the base class and allocate memory for a derived class**
- B. In late binding, we declare an object of the derived class and allocate memory for a base class
- C. In late binding, we cannot declare an object of the base class and allocate memory for a sub-derived class
- D. In late binding, we need not have any virtual methods in the base class
- E. None of the above

20. Which of these is correct for the explicit implementation of an interface?

- A. `public void Method1(){}`
- B. `void Method1(){}`
- C. `public void InterfaceName.Method1(){}`
- D. `void InterfaceName.Method1(){}`**

21. How do you declare a nullable int?

- A. Nullable int a;
- B. int a = null;
- C. **int? a;**
- D. int?? a;

22. Which statement is false?

- A. out variables need not have an initial value
- B. out variables lose their initial value when they enter the function
- C. you must initialise an out variable before control leaves the function
- D. out variables cannot be used in the function before they are initialised
- E. **None of the above**

23. Which statement is true?

- A. ref variables need not have an initial value
- B. ref variables lose their initial value when they enter the function
- C. you must initialise a ref variable before control leaves the function
- D. ref variables cannot be used in the function before they are initialised
- E. **None of the above**

24.

int [,] arr = new int[4,3];

What will be the values for :

arr.Rank, arr.GetLength(1), arr.GetUpperBound(0)

- A. **2, 3, 3**
- B. 2, 4, 3
- C. 2, 3, 4
- D. 1, 3, 3
- E. 1, 4, 3

25. What does Array.IndexOf() return if the item being searched is not found?

- A. null
- B. error
- C. Index of the last item + 1
- D. **-1**

26. Which class is used to iterate thru a SortedList< TKey,TValue> ?

- A. DictionaryEntry
- B. DictionaryEntry< TKey,TValue>
- C. KeyValuePair
- D. **KeyValuePair< TKey,TValue>**

27. Which interface does ICollection< T> inherit from?

- A. IEnumerable
- B. **IEnumerable< T>**
- C. IList< T>
- D. IDictionary< T>
- E. None of the above



28. In generics, what constraint means that T can only be a value type?

- A. where T: value
- B. where T: valueType
- C. where T: struct**
- D. where T: class

29. What is the base class of all classes if no class has been specified as the base class?

- A. Nothing
- B. ToString()
- C. base
- D. Object**

30. Which of the following statements is false?

- A. A struct does not allow inheritance.
- B. A struct cannot have a no parameter constructor
- C. A struct is a value type
- D. A struct is stored on the stack in memory.
- E. A struct cannot have methods.**

31. How do you specify that a thread should get a higher time slice?

- a. set the Priority property**
- b. set the ThreadPriority property
- c. set the TimeSlice in milliseconds
- d. Cannot be done

32. How can you keep waiting till another thread(called t) finishes?

- a. t.Join
- b. t.WaitOne
- c. t.Wait
- d. t.Sleep**

33. Which of these is the correct syntax for an object initializer?

- a. Class1 o = new Class1{a=10};
- b. Class1 o = new Class1(){a=10};
- c. Class1 o = new Class1(20){a=10};
- d. All of the above**

34. How do you call a function using ThreadPool?

- a. Start
- b. Begin
- c. Invoke
- d. QueueUserWorkItem**

35. What is the correct syntax for a lambda that takes no parameters and has multiple line of code

- a. ()=>{code}**
- b. => code
- c. delegate(){}



d Not possible to do so

=====

1. Which of the following statements is false?

- a. The Garbage Collector uses the concept of generations to free memory.
- b. Generation 0 is checked first.
- c. If an object is not freed, it is promoted to Generation N+1 where N is its current generation.
- d. There are a maximum of 3 generations 0,1,and 2.
- e. None of the above.**

2. Why should we implement IDisposable?

- a. It is better than non deterministic finalization
- b. Dispose gets called automatically for all objects in a using block
- c. To write code to free resources
- d. All of the above**
- e. None of the above

3. Which of the following statements is false?

- a. The Assembly contains Metadata and code.
- b. The assembly is in MSIL format.
- c. The assembly may contain one or more modules.
- d. The assembly has an entry point (Main()).
- e. None of the above.**

4. Automatic Property has the following syntax

- a. public property propertyname{get{} set{}}
- b. public int propertyname{get{} set{}}
- c. public propertyname{get; set;}
- d. public int propertyname{get; set;}**

5. Which of the following statements is false?

- a. a reference type cannot be passed as a ref
- b. a value type can be passed as a ref
- c. ref and out can both change the value of the variable in the calling code**
- d. a value type can be passed as out

6. How can you keep waiting till another thread(called t) finishes?

- a. t.Join
- b. t.WaitOne
- c. t.Wait
- d. t.Sleep**

7. Which statement is true for an Extension method?

- a. Extension methods can be written in any class.
- b. Extension methods cannot have parameters.



- c. Extension methods can be overridden.
- d. **Extension methods must be static.**

8. Which of these methods cannot be overridden?

- a. **static**
- b. override
- c. virtual
- d. abstract

9. Which of the following types can be used as a base class?

- a. **Abstract Class**
- b. Struct
- c. Sealed class
- d. Enum
- e. None of the above

10. Which delegate class is used to specify a function to be called automatically after the function that is invoked by `delegateobject.BeginInvoke`?

- a. **IAsyncResult**
- b. AsyncCallback
- c. AsyncResult
- d. Action
- e. None of the above

11. How do you specify that a thread should get a higher time slice?

- a. **set the Priority property**
- b. set the ThreadPriority property
- c. set the TimeSlice in milliseconds
- d. Cannot be done

12. Which of these classes is used for synchronization in Threading?

- a. **ThreadPool**
- b. ThreadStart
- c. Monitor
- d. ParameterizedThreadStart

13. What does a LINQ query return?

- a. var
- b. ICollection<T>
- c. IList<T>
- d. **IEnumerable<T>**

14. What is the correct syntax for a lambda that takes no parameters and has multiple line of code

- a. **()=>{code}**
- b. => code
- c. delegate(){}
- d. Not possible to do so



15. How do you convert Linq query to PLINQ?
- a. cannot be done
 - b. just add the letter P before it
 - c. Use AsParallel() for the collection object**
 - d. implement IEnumerable<Plinq>
16. Which of the following is a Value type?
- a. Array
 - b. Interface
 - c. Delegate
 - d. Class
 - e. None of the above**
17. How can you call a function using Task?
- a. Create a task object and call the Start method
 - b. Use Task.Run
 - c. Use Task.Factory.StartNew
 - d. All of the above**
18. Which of these is correct for a function that returns an int and takes a string as a parameter?
- a. Action<int, string>
 - b. Action< string,int>
 - c. Func<int, string>
 - d. Func <string,int>**
19. What is the correct syntax for operator overloading?
- a. public int operator+(Class1 o, int i){}
 - b. public static int operator+(Class1 o, int i){}**
 - c. public int operator+(int i){}
 - d. public static int operator+(int i){}
20. How do you call a function using ThreadPool?
- a. Start
 - b. Begin
 - c. Invoke
 - d. QueueUserWorkItem**

-
1. Which of the following statements is correct
- A. C# data type bool - CTS type Boolean, C# data type float – CTS type Float

- B. C# data type bool - CTS type Bool, C# data type float – CTS type Float
- C. **C# data type bool - CTS type Boolean, C# data type float – CTS type Single**
- D. C# data type bool - CTS type Bool, C# data type float – CTS type Single

2. Which of the following statements is false?

- A. Assembly metadata can be read using Reflection
- B. Assembly is in IL form
- C. Assembly contains metadata and code
- D. Assembly can have attributes
- E. **None of the above**

3. The default data type of an enum is

- A. **Int32**
- B. Int 16
- C. Int64
- D. String

4. To make an assembly shared, we need to ...

- A. Give it a strong name
- B. Sign it with a key pair
- C. Install it in the GAC
- D. **All of the above**
- E. None of the above

- 5. i) Storing a value type into a reference type results in Boxing
- ii) Storing a reference type into a value type results in Boxing
- iii) Storing a value type into a reference type results in UnBoxing
- iv) Storing a reference type into a value type results in UnBoxing

- A. All are false
- B. All are true
- C. i) and iii) are true
- D. ii) and iv) are true
- E. **i) and iv) are true**
- F. i) and ii) are true

6. Which of the following statements is false?

- A. All Generic Collections implement IEnumerable<T>
- B. IList<T> inherits from ICollection<T>
- C. IDictionary inherits from ICollection
- D. ICollection inherits from IEnumerable
- E. **None of the above**



7. To call a method asynchronously using a delegate object, we use
- A. objDel.Invoke(...)
 - B. objDel.BeginInvoke(...)**
 - C. objDel.EndInvoke(...)
 - D. System.Delegate.InvokeAsync(...)
8. What is the error in the following snippet?
- ```
void DoSomething()
{
 try
 {

 }
 catch(Exception ex) { ... }
 catch(NullReferenceException ex) { ... }
 catch(DivideByZeroException ex) { ... }
}
```
- A. No finally written
  - B. No errors
  - C. ex object is re-declared multiple times
  - D. Base class exception is given first**
9. Which property must be set in WCF Configuration to allow users to see Exception Details of a WCF Methods?
- A. serviceDebug allowExceptions
  - B. serviceDebug includeExceptionDetailInFaults**
  - C. serviceDebug includeCustomExceptionDetails
  - D. serviceMetadata includeCustomExceptionDetails
10. To raise an event defined by you,
- A. RaiseEvent EventName
  - B. RaiseEvent EventName(...)
  - C. EventName(...)**
  - D. DelegateClassName(...)
11. Which of the following is not a valid Thread state as defined in the ThreadState enum?
- A. Aborted
  - B. Running
  - C. Stopped
  - D. Sleep
  - E. Suspended

## F. Background

12. What is true for a background thread?
- A. Background thread cannot be called directly
  - B. Background thread gets a lesser priority
  - C. Background thread is Unmanaged code
  - D. Background thread runs only when the CPU is idle
  - E. All of the above
  - F. **None of the above**
13. What is the difference between out and ref variables?
- A. out variables can't change the calling code variable value but ref can
  - B. out variables can change the calling code variable value but ref can't
  - C. **out variables must be initialized before the function ends. Not required for ref variables**
  - D. out variables can't be used for reference types but ref can.
  - E. None of the above
14. What is false for a static constructor?
- A. Parameterless
  - B. Cant be overloaded
  - C. Implicitly private
  - D. Called when the class is loaded into memory
  - E. Called just once
  - F. **None of the above**
15. For property accessors, which of the following is not allowed?
- A. Public property, private accessor
  - B. Protected internal property, private accessor
  - C. **Protected property, internal accessor**
  - D. Internal property, private accessor
16. Which class can be used as a base class?
- A. **Abstract**
  - B. Sealed
  - C. Static
  - D. internal class defined in another assembly
17. Which of the following statements is false?
- A. An abstract class has at least one abstract method
  - B. All abstract methods are pure virtual functions
  - C. An abstract method can only exist in an abstract class



- D. The derived class must implement all the abstract methods or be marked as an abstract class
- E. **None of the above**

18. `int ? a = 100;`

What is false for this statement?

- A. a is a nullable type variable
- B. Compiler converts this to `Nullable<int> a = 100;`
- C. **This line is an error**
- D. a = null is valid

19. What is false?

- A. All Arrays inherit from the Array class
- B. We can iterate using a foreach loop
- C. Arrays are a reference type
- D. **Double dimension arrays can be sorted using Array.Sort**

20. Which is not valid LINQ?

- i) `from a in b where a.i > 0 select a.j`
- ii) `b.Select(a=>a.j).Where(a=>a.i>0)`
- iii) `b.Where(a=>a.i>0).Select(a=>a.j)`
- A. Only i
- B. **Only ii**
- C. Only iii
- D. ii and iii

21. In FormsAuthentication, the following method deletes the authentication cookie.

- A. `FormsAuthentication.Cookie.Delete`
- B. `FormsAuthentication.Logout`
- C. **`FormsAuthentication.SignOut`**
- D. `FormsAuthentication.Cookie.Remove`

22. Which of these is available in a Redirect but not in subsequent requests?

- a. ViewBag
- b. ViewData
- c. **TempData**
- d. Session variable

23. How do you override the bundling setting of web.config?

- a. **write code in BundleConfig.cs and set the EnableOptimizations property of the BundleTable class**
- b. write code in BundleConfig.config and set the EnableOptimizations property of the BundleTable class

- c. write code in BundleConfig.cs and set the EnableOptimizations property of the BundleCollection class  
d. write code in BundleConfig.config and set the EnableOptimizations property of the BundleCollection class
24. To achieve Minification in asp.net mvc  
a. Set minification = true in compilation section in web.config  
b. Set minification = false in compilation section in web.config  
c. Set debug = true in compilation section in web.config  
d. **Set debug = false in compilation section in web.config**
25. To show a partial view in asp.net mvc with a method that returns a html string we use  
a. **Html.Partial()**  
b. Html.RenderPartial()  
c. Html.RenderAction()  
d. Html.RenderView()
26. To allow a method to be called from a Webservice, do the following  
A. Keep it as a public method  
B. Keep it as a public static method  
C. **Keep it as a public method with a WebMethod attribute**  
D. Keep it as a public static method with a WebMethod attribute
27. Which class do we inherit from while interacting with the Entity Framework  
A. Entity  
B. Framework  
C. **DbContext**  
D. DataContext
28. Which of the following statements is true?  
A. A command can be executed from a closed connection  
B. A Datareader cannot contain more than one set of data  
C. A DataSet can only have one dataTable  
D. **A DataAdapter need not have an open connection to call its fill method**
29. What does the SoapFormatter serialize  
A. methods of a class  
B. public variables and properties of a class  
C. **public and private variables of a class**  
D. public and private properties of a class
30. To add a Primary key constraint on the DataTable  
A. pass a DataColumn array object to the PrimaryKey property for the DataSet  
B. pass a DataColumn object to the PrimaryKey property for the DataSet  
C. **pass a DataColumn array object to the PrimaryKey property for the DataTable**

- D. pass a DataColumn object to the PrimaryKey property for the Datatable
31. To see records from a DataTable in a sorted manner use...
- A. Sort property of DataTable
  - B. Sort property of DataView**
  - C. Sort property of DataSet
  - D. Sort property of DataColumn
32. How do you run a method in a new thread
- a. Create a thread object and pass a method as a parameter to the constructor
  - b. call thread.Run()
  - c. call thread.Start()**
  - d. call thread.BeginInvoke()
33. Which of these provides a read only, forward only way of reading records
- a. DataTable
  - b. DataView
  - c. DataSet
  - d. SqlDataReader**
34. Which of these does not require typecasting while accessing it
- a. ViewBag**
  - b. ViewData
  - c. TempData
  - d. Session variable
35. Which method of the DataSet returns the records whose RowState is not Unchanged
- a. AcceptChanges
  - b. RejectChanges
  - c. GetChanges**
  - d. Update
36. In a WCF service the following describes the WCF service in detail
- a. Proxy Class
  - b. WSDL
  - c. Mex endpoint**
  - d. Disco file
37. What attribute is used to mark a method in a ServiceContract?
- a. ServiceContract
  - b. DataContract
  - c. DataMember
  - d. OperationContract**
38. Duplex WCF service uses the following binding

- a. WsDuplexHttpBinding
- b. **WsDualHttpBinding**
- c. WebHttpBinding
- d. BasicHttpBinding

39. To add a new row to a Datatable ...

- a. call the Add method of the Rows collection of the DataSet
- b. call the Add method of the DataTable
- c. **call the Add method of the Rows collection of the DataTable**
- d. call the Add method of the DataSet

40. Restful WCF service uses the following binding

- a. WsDuplexHttpBinding
- b. WsDualHttpBinding
- c. **WebHttpBinding**
- d. BasicHttpBinding

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## MS.NET Sample Questions

1. \_\_\_\_\_parameters allow you to give a method parameter a default value so that you do not have to specify it every time you call the method.

a) Optional

b) Named

c) Out

d) Ref

2. Consider the below scenario :

John is working as software developer for Blue Diamond Corporation ,currently he is developing a web application for one of the leading retail book shop. He is using EF and LINQ to work with databases. He needs to write a LINQ query which will display all the details about books whose 'Price' is greater than 50 and 'QuantityInStock' should be greater than 100.

Which of the following LINQ expression will best suit his requirement?

a) var result=from b in books

select b

where b.QuantityInStock>100 and b.Price>50;

b) var result=from b in books

where b.QuantityInStock>100 and b.Price>50

select b ;

c) var result=from books b

select books

where b.QuantityInStock>100 and b.Price>50;

d) var result=from books b

where b.QuantityInStock>100 and b.Price>50

select books;

3. \_\_\_\_\_methods are not supported by dynamic type.

a) Anonymous

b) Static

c) Abstract

d) Extension

4. You are developing an ASP.NET MVC application. You create a view that will be returned by action methods in multiple controllers. You need to place the view in the appropriate folder. To which subfolder with the Views folder should you add the view?

a) Shared

b) Master

c) Default

d) None of these

5. What is the output of the following code?

```
class OverLoad{
 public int x;
 int y;
 public int add(int a){

 x=a+1;
 return x;
 }
 public int add(int a,int b){

 x=a+2;
 return x;
 }
}

class Program{
 static void Main(string[]args){
 OverLoad obj=new OverLoad();
 OverLoad obj1=new OverLoad();
 int a=0;
 obj.add(6);
 obj1.add(6,2);
 Console.Write(obj.x);
 Console.WriteLine(obj1.x);
 }
}
```

- a) 8      8
- b) 0      2
- c) 8      10
- d) 7      8

6. State whether the following statements about the MSIL are true or false.

- i. The MSIL code includes instructions to load, initialize and invoke methods on objects
- ii. The MSIL code is collected and assembled in the form of byte codes and is converted to a .NET Assembly

- a) i-true    ii-false
- b) i-false   ii-true
- c) i-true    ii-true
- d) i-false   ii-false

7. C# treats the multiple catch statements like cases in a \_\_\_\_\_ statement
- a) If
  - b) Switch
  - c) For
  - d) While
8. How do you get information from a form that is submitted using the POST method?
- a) Request.QueryString
  - b) Request.Form
  - c) Response.Write
  - d) Response.WriteLine
9. What does the following C# code specify?  
object Invoke(object obj, object[] parameters)
- a) Calling a type using Invoke()
  - b) The value returned by the invoked method is returned by Invoke()
  - c) Any arguments that need to be passed to the method are specified in the array parameter
  - d) All of the mentioned
10. What is used in following scenario:  
When working with a query expression, a variable that can store the result of the sub expression in order to reuse it in the upcoming clause
- a) let
  - b) var
  - c) dynamic
  - d) generic expression
11. Complete the following:  
IsNullOrEmpty() function is used to check whether the specified string is null or an Empty string. A string will be \_\_\_\_\_ if it has not been assigned a value. A string will be Empty if it is assigned \_\_\_\_\_ or \_\_\_\_\_
- a) null, "", string.Empty
  - b) "", null, String.Empty
  - c) null, string.Empty, " "
  - d) "", string.empty, null
12. In C# which one of the following modifier do you use in a base class to require any derived class to implement a class member?
- a) abstract
  - b) virtual
  - c) must override
  - d) sealed

13. Choose the correct statements from the following

- a) Indexers are location indicators
- b) Indexers are used to access class object
- c) Indexer is a form of property and works in the same way as a property
- d) All of the mentioned

14. Find the error in the below code snippet:

```
class Employee{

 int Empld;
 public int Employee(){

 Empld=1001;
 }
}
```

- a) No error
- b) Return type is not possible in constructor
- c) Access Specifier is not possible in constructor
- d) Constructor must have a different name than class

15. You have to create a collection of Order objects. The collection must meet the following requirements:

- Use Strongly typed members
- Process Order Objects in first-in-first-out order
- Store values for each Order Objects
- Use zero based indices

Which collection type must be used to meet all the above requirements?

- a) Stack<T>
- b) Queue<T>
- c) LinkedList<T>
- d) Dictionary<K,V>

16. The \_\_\_\_\_ keyword is new to C#4.0 ,and is used to tell the compiler that a variable type can change or that is not known until runtime.

- a) covariance
- b) dynamic
- c) contravariance
- d) object

17. Which of the following are valid states of thread?

- 1.Unstarted
- 2.Runnable(ready to run)



- 3. Running
- 4. Not Runnable
- 5. Dead(terminated)

a) 1,2,3,4,5

b) 1,2,4,5

c) 1,2,3,5

d) 1,2,3,4

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

```
class Program{
 static void Main(string[] args){

 int i=5;
 int j;
 method1(ref i);
 method2(out j);
 Console.WriteLine(i+" "+j);
 }
 static void method1(ref int x){

 x=x+x;
 }
 static void method2(out int x){
 x=6;
 x=x*x;
 }
}
```

a) 36 10

b) 10 36

c) 0 0

d) 36 0

19. Which component in ASP.NET MVC can be used to pass data between controller to view ?  
(Assume you have to pass current date and time)

a) ViewData["DateTime"]=DateTime.Now.ToString();

b) ViewState["DateTime"]=DateTime.Now.ToString();

c) ViewBag["DateTime"]=DateTime.Now.ToString();

d) DataView["DateTime"]=DateTime.Now.ToString();

20. You have declared an event on your class and you want outside users of your class to raise this event . What do you do?

a) Add a public method to your class that raises the event

- b) Make the event public
- c) Use a public delegate instead of an event
- d) Use a custom event accessor to give access to outside users

21. How to check request coming from which controller using MVC ASP.NET?

- a) `var _controller=HttpContext.Current.Request.RequestContext.Values["Controller"].ToString();`
- b) `var _controller=HttpContext.Current.Request.RequestContext.Routedata.Values["Controller"].ToString();`
- c) `var _controller=RouteData.Values["Controller"].ToString();`
- d) None of the above

22. `List<T>.Contains(T)` method is used to check whether an element is in the `List<T>` or not. The return type is:

- a) int
- b) boolean
- c) void
- d) var

23. 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 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

- a) i-true ii-false iii-false
- b) i-false ii-true iii-false
- c) i-true ii-false iii-true
- d) i-false ii-false iii-true

24. The infrastructure that support dynamic operations at run time is called the \_\_\_\_\_

- a) CLR
- b) CTS
- c) CLS
- d) DLR

25. Consider the following code and predict the output:

```
using System;
class ExcDemo3{
 public static void Main(){

 int[] number={4,8,16,32,64,128};
 int[] denom={2,0,4,4,0,8};
 for(int i=0;i<number.Length;i++){

 try{
```

```

 int []div=new int[7];
 div[i]=numer[i]/denom[i];
 }
 catch(DivideByZeroException)
 {
 Console.WriteLine("cannot divide by zero");
 }
 catch(IndexOutOfRangeException)
 {
 Console.WriteLine("");
 }
 }
 Console.Read();
}

```

- a) DivideByZeroException
- b) FormatException
- c) IndexOutOfBoundsException
- d) None of these

26. Inheritance is \_\_\_\_\_ in nature.

- a) Commutative
- b) Associative
- c) Transitive
- d) Iterative

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

```

static void Main(string []args)
{
 int i,j;
 int[,]arr=new int[3,3];
 for(i=0;i<3;i++){
 for(j=0;j<3;j++){
 arr[i,j]=i*2+i*2;
 Console.WriteLine(arr[i,j]);
 }
 }
 Console.ReadLine();
}

```

- a) 0,0,0,4,4,4,8,8,8
- b) 4,4,4,8,8,8,12,12,12
- c) 8,8,8,12,12,12,16,16,16

d) ,0,0,0,1,1,1,2,2,2

28. How do you manage states in ASP.NET MVC application?

- a) Application
- b) Session
- c) Viewbag
- d) All of the above

29. Choose the incorrect statement about delegate?

- a) Delegates are not type safe
- b) Delegates can be used to implement callback notifications
- c) Delegate is a user defined type
- d) Delegates permits execution of a method in an asynchronous manner

30. What is the correct definition of extension methods?

- a) The extension are static methods that allows developers to extend functionality of an existing type without creating a new derived type, recompiling, or otherwise modifying the original type and instance methods on the extended type.
- b) The extensions are static methods that allows developers to extend functionality of an existing type
- c) The extensions are static methods that allows developers to extend functionality of an existing type and are instance methods
- d) None of the above

31. The reason that C# does not support multiple inheritance is because of \_\_\_\_\_

- a) Method collision
- b) Name collision
- c) Function collision
- d) Interface collision

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

```
class Program{

 static void Main(string[]args){

 string[] strs={"alpha","beta","gamma"};

 var chrs=from str in strs
 let chrArray=str.ToCharArray()
 from ch in chrArray
 orderby ch
 select ch;
```

```
Console.WriteLine("The individual character in sorted order:");
foreach(char c in chrs)
 Console.Write(c+" ");
Console.WriteLine();
Console.ReadLine()

}

}
```

- a) a a l h a b g m m a p e t a
- b) a a a a a b e g h l m m p t
- c) a g h l m m p t a a a a b e
- d) Runtime error

33. \_\_\_\_\_ ensures complete interoperability among applications , regardless of the language used to create the application

- a) CLR
- b) CLS
- c) CTS
- d) FCL

34. Which of the following keyword is used to overload user defined types?

- a) op
- b) opoverload
- c) operator
- d) operatoroverload

35. In C# having unreachable code is always an \_\_\_\_\_

- a) Method
- b) Function
- c) Error
- d) Iterative

36. Which operator among the following signifies the destructor operator?

- a) ::
- b) :
- c) ~
- d) &

37. The C# compiler used in .NET core is \_\_\_\_\_

- a) Cse.exe
- b) Roslyn

- c) Typescript
- d) Core.exe

38. Valid code for creating a SqlConnection object would be :

- a) `SqlConnection conn=new SqlConnection("Data Source=(local);Initial Catalog=Nortwind;Integrated Security=SSPI");`
- b) `SqlConnection conn=new SqlConnection("Data Source=(local);Initial Catalog=Nortwind;Integrated Security=SSPI");`
- c) `SqlConnection conn=new SqlConnection("Data Source=(local);Initial Catalog=Nortwind;Integrated Security=SSPI");`
- d) All of the above

39. Which among the following is not a type of contract in WCF?

- a) Service Contract
- b) Operation Contract
- c) Security Contract
- d) None of the above

40. How to print value from Controller to MVC?

- a) `ViewBag.ECMDetail="my message";` and in view `@ViewBag.ECMDetail`
- b) `ViewBag.ECMDetail="my message";` and in view `ViewBag.ECMDetail`
- c) `ViewBag.ECMDetail="my message";` and in view `ViewBag.Title`
- d) None of the above

Template for generation of Questions

Date:

Question generated by: Mr. Deepak Mitra

Module: Ms .Net 4.5

## **Session 1**

### **1. Which of the following are NOT true about .NET Framework?**

1. It provides a consistent object-oriented programming environment whether object code is stored and executed locally, executed locally but Internet-distributed, or executed remotely.
  2. It provides a code-execution environment that minimizes software deployment and versioning conflicts.
  - 3. It provides a code-execution environment that promotes safe execution of code, including code created by an unknown or semi-trusted third party.**
  4. It provides different programming models for Windows-based applications and Web-based applications.
  5. It provides an event driven programming model for building Windows Device Drivers.
- a. 1,2
  - b. 2, 4
  - c. 4, 5
  - d. 1,2,4

**Difficulty Level: Easy**

**2. Which of the following components of the .NET framework provide an extensible set of classes that can be used by any .NET compliant programming language?**

**1. .NET class libraries**

- 2. Common Language Runtime
- 3. Common Language Infrastructure
- 4. Component Object Model
- 5. Common Type System

**Difficulty Level: Intermediate**

## **Session 2**

**3. Which of the following jobs are NOT performed by Garbage Collector?**

- 1. Freeing memory on the stack.
  - 2. Avoiding memory leaks.
  - 3. Freeing memory occupied by unreferenced objects.
  - 4. Closing unclosed database collections.
  - 5. Closing unclosed files.
- a. 1, 2, 3
  - b. 3, 5
  - c. 1, 4, 5**
  - d. 3, 4

**Difficulty Level: Easy**



**4. Which of the following statements are TRUE about the .NET CLR?**

1. It provides a language-neutral development & execution environment.
  2. It ensures that an application would not be able to access memory that it is not authorized to access.
  3. It provides services to run "managed" applications.
  4. The resources are garbage collected.
  5. It provides services to run "unmanaged" applications.
- a. 1, 2
  - b. 1, 2 and 4
  - c. 1, 2, 3, 4**
  - d. 4 and 5
  - e. 3 and 4

**Difficulty Level: Easy**

**Session 3**

**5. Which of the following utilities can be used to compile managed assemblies into processor-specific native code?**

- a. gacutil
- b. ngen
- c. sn
- d. dumpbin
- e. ildasm

**Difficulty Level: Intermediate**

**6. Which of the following statements are correct about a .NET Assembly?**

1. It is the smallest deployable unit.
  2. Each assembly has only one entry point - Main(), WinMain() or DLLMain().
  3. An assembly can be a Shared assembly or a Private assembly.
  4. An assembly can contain only code and data.
  5. An assembly is always in the form of an EXE file.
- a. 1, 2, 3
  - b. 2, 3, 4
  - c. 1, 3, 5
  - d. 1, 2

**Difficulty Level: Easy**

#### **Session 4**

#### **7. Which of the following statements is correct about Managed Code?**

- a. Managed code is the code that is compiled by the JIT compilers.
- b. Managed code is the code where resources are Garbage Collected.
- c. Managed code is the code that runs on top of Windows.
- d. Managed code is the code that is written to target the services of the CLR.
- e. Managed code is the code that can run on top of Linux.

**Difficulty Level: Intermediate**

#### **8. Which of the following statements is correct with regard to .NET framework managed web pages?**

- a. They interact directly with the runtime
- b. They do not execute in the native code language
- c. They are interpreted and scripted

- d. All of the above

**Difficulty Level: Easy**

### **Session – 5**

**9. Which of the following is not WPF model (used to create a new control/custom control)?**

- a. User Control model
- b. Control Model
- c. Framework control Model
- d. Element Model

**Difficulty Level: Intermediate**

**10. Which of the following is NOT true?**

- a. A WCF Service can be consumed by Windows applications
- b. A WCF Service can be consumed by Web applications
- c. A WCF Service can perform calculations
- d. A WCF Service cannot return a dataset

**Difficulty Level: Easy**

## **C#. NET 4.5**

### **Session - 1**

**11. Correct Declaration of Values to variables 'a' and 'b'?**

- a.int a = 32, b = 40.6;
- b.int a = 42; b = 40;
- c.int a = 32; int b = 40;

```
d.int a = b = 42;
```

**Difficulty Level: Easy**

**12. Which Conversion function of 'Convert.ToInt32()' and 'Int32.Parse()' is efficient?**

- 1. Int32.Parse() is only used for strings and throws argument exception for null string**
- 2. Convert.ToInt32() used for datatypes and returns directly '0' for null string**
  - a. 2
  - b. Both 1,2
  - c. 1
  - d. None of the mentioned

**Difficulty Level: Intermediate**

**Session – 2**

**13. Type of Conversion in which compiler is unable to convert the datatype implicitly is ?**

- a) ushort to long
- b) int to uint
- c) ushort to long
- d) byte to decimal

**Difficulty Level: Easy**

**14. Select the output for the following set of Code :**

```

static void Main(string[] args)
{
 int a = 5, b = 10;
 if (Convert.ToBoolean(Convert.ToInt32(++a)) ||
 Convert.ToBoolean(Convert.ToInt32(++b)))
 {
 Console.WriteLine(a + "\n" + b);
 }
 else
 Console.WriteLine(" C# ");
}

```

- a. 6 11    b. 6 16    c. 6 12    **d. 6 10**

**Difficulty Level: Easy**

### Session-3

**15. Choose the correct output for the C#.NET code given below?**

```

enum days:int
{
 sunday = -3,
 monday,
 tuesday
}
Console.WriteLine((int)days.sunday);
Console.WriteLine((int)days.monday);
Console.WriteLine((int)days.tuesday);

```

- a) -3 0 1  
 b) 0 1 2  
**c) -3 -2 -1**  
 d) sundaymondayTuesday

**Difficulty Level: Intermediate**

**16. What is the output of the following set of code ?**

```
static void Main(string[] args)
{
 int i, j;
 int[,] arr = new int[3, 3];
 for (i = 0; i < 3; ++i)
 {
 for (j = 0; j < 3; ++j)
 {
 arr[i, j] = i * 2 + i * 2;
 Console.WriteLine(arr[i, j]);
 }
 Console.ReadLine();
 }
}
```

**a) 0,0,0 4,4,4 8,8,8**

b) 4,4,4 8,8,8 12,12,12

c) 8,8,8 12,12,12 16,16,16

d) 0,0,0 1,1,1, 2,2,2

**Difficulty Level: Intermediate**

**Session-4**

**17. Which of the following is an incorrect statement about delegate?**

a. A single delegate can invoke more than one method

b. delegates could be shared

**c. delegates are type safe wrappers for function pointers**

d. delegate is a value type

**Difficulty Level: Intermediate**

**18. Which feature enables to obtain information about the use and capabilities of types at runtime?**

a. Runtime type ID

**b. Reflection**

c. Attributes

d. None of the mentioned

**Difficulty Level: Easy**

#### **Session-5**

**19. Which among the following is the correct way to find out the number of elements currently present in an ArrayListCollection called arr?**

a.arr.Capacity

**b.arr.Count**

c.arr.MaxIndex

d.arr.UpperBound

**Difficulty Level: Intermediate**

**20. Which of the following cannot further inspect the attribute that is once applied?**

- a. Linker**
- b. ASP.NET Runtime
- c. Language compilers
- d. CLR

**Difficulty Level: Intermediate**

**Session – 6**

**21. What will be the output of the following set of code?**

```
{
int sum = 10;
try
{
int i;
for (i = -1; i < 3; ++i)
sum = (sum / i);
}
catch (ArithmeticException e)
{
Console.WriteLine("0");
}
Console.WriteLine(sum);
Console.ReadLine();
}
```

- a. 0      b. 0 5      **c. 0 -10**      d. Compile time error



**Difficulty Level: Easy**

**22. Which of these exceptions will occur if we try to access the index of an array beyond its length?**

- a.ArithmeticException
- b.ArrayException
- c.ArrayArgumentException
- d.IndexOutOfRangeException**

**Difficulty Level: Intermediate**

**Session – 7**

**23. To use the .NET Framework Data Provider for SQL Server, an application must reference the \_\_\_\_\_ namespace.**

- a.System.Data.Client
- b.System.Data.SqlClient**
- c.System.Data.Sql
- d. None of the mentioned

**Difficulty Level: Easy**

**24. Valid Code for Creating a SqlConnection Object would be :**

- a. SqlConnection conn = new SqlConnection( "Data Source=(local);Initial Catalog=Northwind;Integrated Security=SSPI");
- b. SqlConnect conn = new SqlConnection( "Data Source=(local);Initial Catalog=Northwind;Integrated Security=SSPI");

- c. SqlConnection conn = new SqlConnection("Data Source=(local);Initial Catalog=Northwind;Integrated Security=SSPI");
- d. All of the mentioned

**Difficulty Level: Intermediate**

### **Session – 8**

**25. \_\_\_\_\_ object is used to fill a DataSet/DataTable with query results in ADO.net.**

- a. DataReader
- b. Dataset
- c. DataAdapter**
- d. DataTables

**Difficulty Level: Easy**

**26. The DataSet object is a \_\_\_\_\_ storage.**

- a. connected
- b. disconnected**
- c. polling
- d. None

**Difficulty Level: Intermediate**

### **Session – 9**

**27. What information is specified in the Connection tab of the DataLink window?**

- a. Database login
- b. Database name
- c. Database type
- d. Both a and b.**
- e. All of the above.

**Difficulty Level: Easy**

**28. Which database is the ADO.NET SqlConnection object designed for?**

- a. Access
- b. Microsoft SQL Server**
- c. MySQL
- d. Oracle
- e. None of the above.

**Difficulty Level: Intermediate**

**Session – 10**

**29. The first step of configuring a DataAdapter is to select:**

- a. an adapter object.
- b. a connection object.**
- c. a database object.
- d. a dataset object.
- e. None of the above.

**Difficulty Level: Easy**

**30. What is the proper code to put data into the dataset called CustomerDataset using the CustomerDataAdapter object?**

- a. CustomerDataset.Fill(CustomerDataAdapter)
- b. CustomerDataAdapter.Fill(CustomerDataset)**
- c. CustomerDataset.Load(CustomerDataAdapter)
- d. CustomerDataAdapter.Load(CustomerDataset)
- e. None of the above.

**Difficulty Level: Intermediate**

**Session – 11**

**31. WCF services can communicate with \_\_\_\_\_.**

- a. all programming languages
- b. XML**
- c. only the languages included with Visual Studio .NET
- d. multiple platforms and multiple languages

**Difficulty Level: Easy**

**32. The standard method for storing data that can be transferred easily from one machine or platform to another is \_\_\_\_\_.**

- a. XML
- b. SOAP
- c. WSDL**
- d. WCF

**Difficulty Level: Intermediate**

**ASP .NET 4.5**

**Session – 1**

**33. Choose the form in which Postback occur**

- a. HTMLForms
- b. Webforms**
- c. Winforms
- d. None of the above

**Difficulty Level: Intermediate**

- 34.** Web.config file is used...
- a. Configures the time that the server-side codebehind module is called
  - b. To store the global information and variable definitions for the application**
  - c. To configure the web server
  - d. To configure the web browser

**Difficulty Level: Easy**

**Session – 2**

- 35.** Attribute must be set on a validator control for the validation to work.
- a. ControlToValidate**
  - b. ControlToBind
  - c. ValidateControl
  - d. Validate

**Difficulty Level: Intermediate**

- 36.** Which of the following webserver control used as container for other server controls in a ASP.NET webpage?
- a.PlaceHolder
  - b. Panel**
  - c. Table
  - d.ImageMap

**Difficulty Level: Easy**

**Session – 3**

**37.** What is/are the advantages of master page?

- a. It helps to display common content in multiple pages.
- b. They allow you to centralize the common functionality of your pages so that you can make updates in just one place.
- c. It helps to create a common page layout.
- d. All of the above.**

**Difficulty Level: Intermediate**

**38.** Which of the following is a valid skin code inside a skin file?

- a. `<asp:TextBoxBackColor="Yellow" BorderStyle="Dotted" ID="colorTxt" Runat="Server"/>`
- b. `<asp:TextBoxBackColor="Yellow" BorderStyle="Dotted" Runat="Server" />`**
- c. `<asp:TextBoxBackColor="Yellow" BorderStyle="Dotted" ID="colorTxt" />`
- d. None of the above.

**Difficulty Level: Easy**

**Session – 4**

**39.** Choose the correct option according to given statements.

**Statement 1: Authentication is the process that determines the identity of a user.**

Statement 2: Authorization is the process of determining whether a user is permitted access to any part of an application, or any particular resource.

Statement 3: Authorization is the process that determines the identity of a user.

Statement 4: Authentication is the process of determining whether a user is permitted access to any part of an application, or any particular resource.

- a. Statement 1 and Statement 2 are correct.
- b. Statement 3 and Statement 4 are correct.
- c. Statement 1 and Statement 3 are correct.
- d. Statement 2 and Statement 4 are correct.

**Difficulty Level: Intermediate**

**40. How many types of authentication ASP.NET supports?**

- a. Windows Authentication.
- b. .NET Passport Authentication.
- c. Forms Authentication.
- d. All of the above.**

**Difficulty Level: Easy**

**Session – 5**



**41.** Which control is required of every AJAX page to manage the JavaScript files sent to the client and the communication between client and server?

- a. UpdatePanel
- b. ScriptManager**
- c. AsyncPostBackTrigger
- d. None of the above.

**Difficulty Level: Intermediate**

**42.** A Master Page contains a ScriptManager control and a user wants the AJAX functionality on content page then which control is necessary on content page.

- a. AsyncPostBackTrigger
- b. ScriptManager
- c. ScriptManagerProxy**
- d. None of the above.

**Difficulty Level: Intermediate**

## **Session – 6**

**43.** When do LINQ queries actually run?

- a. When they are iterated over in a foreachloop
- b. When calling the ToArray() method on the range variable
- c. When calling the ToList() method on the range variable
- d. All of the above**

**Difficulty Level: Easy**

**Session – 7**

**44.** The control used in ASP.NET to display information from data set but with better formatting and editing behavior is

- a. Pane
- b. Button
- c. DataList (ANS)
- d. None of the Above**

**Difficulty Level: Intermediate**

**45.** The ListView control displays data

- a. in a format that you define by using templates and styles.
- b. in a format defined using CSS
- c. in a format defined by you**
- d. none of these

**Difficulty Level: Intermediate**

**Session – 8**

**46.** The stream is basically the sequence of

- a. Characters**
- b. Bytes
- c. Bits
- d. All of the above

**Difficulty Level: Easy**

**47.** Long form of SOAP is \_\_\_\_\_.

- a. Simplified Object Arbitrary Protocol
- b. Simple Object Access Protocol**
- c. Secure Object Access Protocol
- d. None of these

**e. Difficulty Level: Intermediate**

### **Session – 9**

**48.** An WCF service is exposed to the world as a collection of \_\_\_\_\_ .

- a. messages
- b. endpoints**
- c. services
- d. None of these

**Difficulty Level: Easy**

**49.** Which one is not a class in WCF?

- a. BasicHttpBinding
- b. BasicHttpContextBinding**
- c. BasicHttpsBinding
- d. None of above

**Difficulty Level: Easy**

**50.** During runtime of service\_\_\_\_\_ controls how many messages are processed.

- a. Error Behavior
- b. Throttling Behavior
- c. Metadata Behavior
- d. Dispatch Behavior**

**Difficulty Level: Intermediate**

**51.** \_\_\_\_\_ binding provides secure binding for peer-to-peer environment and network applications.

- a. NetPeerTcpBinding
- b. NetTcpBinding**
- c. BasicHttpBinding
- d. WSDualHttpBinding

**Difficulty Level: Intermediate**

**52.** \_\_\_\_\_ binding provides secure and reliable binding environment for .Net to .Net cross machine communication.

- a. BasicHttpBinding
- b. WSHttpBinding
- c. NetTcpBinding**
- d. WSDualHttpBinding

**Difficulty Level: Easy**

**53.** A \_\_\_\_\_ is a formal agreement between a service and a client that abstractly describes the data to be exchanged.

- a. service contract
- b. data contract**
- c. message contract
- d. operation contract

**Difficulty Level: Intermediate**

## **Session – 12**

**54.** Debug class is available in which namespace?

- a. System.Debug
- b. System.Data
- c. System.Diagnostics**
- d. None of the above

**Difficulty Level: Intermediate**

**55.** What property do you modify on a server control to minimize the size of the ViewState data?

- a. ViewState="true"
- b. Set EnableViewState to false
- c. Set EnableViewState to true
- d. None of the above**

**Session – 13**

**56.** AppCmd.exe is an application that helps you work with which objects?

(Choose all that apply.)

- a. Site
- b. Users
- c. App
- d. A and c**

**Difficulty Level: Intermediate**

**57.** You are building an application in which you want to display updated information to a website every 15 minutes. What are efficient ways to manage the update? (Choose all that apply.)

- a. WebSockets
- b. HTTP polling with 1-minute intervals
- c. HTTP polling with 15-minute intervals
- d. A and c both**

**Session – 14**

**58.** Which Helper Method is used to return a user-defined content type.

- a. Content**
- b. JavaScript
- c. View
- d. RedirectToRoute

**Difficulty Level: Intermediate**

**59.** .In ASP.NET ,What method must be overridden in a custom control ?

- a. Paint()
- b. Build()
- c. Run()
- d. Render()**

**Difficulty Level: Easy**

**Session – 15**

**60.** What are the advantages of AJAX

- a. AJAX is a platform-independent technology.
- b. It provides partial-page updates.
- c. Improved performance.
- d. All of the above.**

**Difficulty Level: Intermediate**

**61.** The UpdatePanel supports two types of triggers: AsyncPostBackTrigger and PostBackTrigger. Choose the correct option regarding working of these triggers.

- a.AsyncPostBackTrigger causes an asynchronous (Ajax) postback.
- b.PostBackTrigger causes a normal entire-page postback.
- c.AsyncPostBackTrigger causes a normal entire-page postback.
- d. Option A and B are Correct.**

**Difficulty Level: Intermediate**

**Session – 16**

**62.** In ASP.NET the < authorization > section contain which of the following elements?

- a. < deny >
- b. < allow >**
- b. Both A. and B.
- d. None of the Above

**Difficulty Level: Intermediate**

**63.** Which of the following is TRUE about Windows Authentication in ASP.NET?

- a. Automatically determines role membership**
- b. Role membership determined only by user programming
- c. ASP.NET does not support Windows Authentication
- d. None of the Above

**Session – 17**

**64.** In the Entity Framework, which is the primary object that you use to query and modify data?

- a.ObjectContext**
- b. EntityObject
- c. DataContext
- d. None Of these



**Difficulty Level: Intermediate**

- 65.** Which of the following is NOT TRUE about the Entity Framework?
- a. It automatically generates the classes from the model and updates these classes dynamically when the model is changed.
  - b. It takes care of database connectivity.
  - c. It provides query syntax for querying the model
  - d. It does not provide any mechanism to track changes to the model's objects.**

**Difficulty Level: Intermediate**

**Session – 18 and 19**

- 66.** Silverlight uses.....to ease UI development
- a. XSL
  - b. XML
  - c. HTML
  - d. XAML**
- 67.** which of the following is used to Support the dynamic compilation and execution of scripting languages such as JavaScript and IronPython to program Silverlight-based applications.
- a. CLR
  - b. JIT
  - c. DLR**
  - d. All of above

**Difficulty Level: Easy**

**68.** Which feature enables developers to query XML data directly within .NET Framework programming languages?

- a. XmlReader and XmlWriter
- b. LINQ**
- c. XQuery
- d. None of above

**Difficulty Level: Intermediate**

**69.** What is namespace of Brush class?

- a. System.Windows
- b. System.Windows.Media**
- c. System.Windows.Controls
- d. System.Windows.UIElement

**Difficulty Level: Easy**

# .Net CCEE test

Total points 20/40



26-Aug-2022

Student ID: \*

Name : \*

Centre :

☐

Juhu

☒

Kharghar

✓ 1. Which of the following keyword is used to overload user defined types by defining static member functions?

☐

a) op

☐

b) opoverload

☒

c) operator

☐

d) operatoroverload



✗ 2. Operators that can be overloaded are?

0/1

- ☐ a) ||
- ☒ b) '+='
- ☐ c) +
- ☐ d) []

✗

Correct answer

- ☒ c) +

✗ 3. What is the vector in operator overloading?

0/1

- ☐ a) class
- ☒ b) method()
- ☐ c) data type
- ☐ d) none of the mentioned

✗

Correct answer

- ☒ c) data type



✗ 4.what is Operator Overloading? \*

0/1

- ☐ Enables user-defined operator implementations for various operators such as: =, typeof
- ☒ The ability to declare more than one method with the same name but a different signature ✗
- ☐ Enables user-defined operator implementations for various operators such as: true, false

Correct answer

- ☒ Enables user-defined operator implementations for various operators such as: true, false

✗ 5.Which of the following is NOT an interface declared in *System.Collections* namespace?

0/1

- ☐ A. IComparer
- ☐ B. IEnumerable
- ☒ C. IEnumerator ✗
- ☐ D. IDictionaryComparer
- ☐ E. IDictionaryEnumerator

Correct answer

- ☒ D. IDictionaryComparer



✗ 6. Suppose value of the *Capacity* property of *ArrayList* Collection is set to 4. 0/1  
What will be the capacity of the Collection on adding fifth element to it?

- ☒ A. 4
- ☐ B. 8
- ☐ C. 16
- ☐ D. 32

✗

Correct answer

- ☒ B. 8

✓ 7. Which of the following is the correct way to find out the number of elements currently present in an *ArrayList* Collection called *arr*?

1/1

- ☒ A. `arr.Count`
- ☐ B. `arr.GrowSize`
- ☐ C. `arr.MaxIndex`
- ☐ D. `arr.Capacity`
- ☐ E. `arr.UpperBound`

✓



✗ 8. The ... method removes and returns the object at the beginning of the Queue. 0/1

- ☒ A) public virtual void Dequeue();
- ☐ B) public virtual void Delete();
- ☐ C) public virtual void Clear();
- ☐ D) public virtual object Dequeue();

✗

Correct answer

- ☒ D) public virtual object Dequeue();

✗ 9. Which Property we can use to gets or sets the number of elements that the ArrayList can Contain..... 0/1

- ☐ A) Count
- ☒ B) Item
- ☐ C) Capacity
- ☐ D) Length

✗

Correct answer

- ☒ C) Capacity



✓ 10. Among the given collections which is the I/O index based?

1/1

- ☐ a) ArrayList
- ☐ b) BitArray
- ☐ c) Stack
- ☐ d) Queue
- ☒ e) both a and b



✓ 11. Choose the correct statement among the followings?

1/1

- ☐ a) Indexers are location indicators
- ☐ b) Indexers are used to access class objects
- ☐ c) Indexer is a form of property and works in the same way as a property
- ☒ d) All of the mentioned



✓ 12. Choose the correct statement among the followings?

1/1

- ☐ a) Indexers are location indicators
- ☐ b) Indexers are used to access class objects
- ☐ c) Indexer is a form of property and works in the same way as a property
- ☒ d) All of the mentioned





✗ 13. Choose the keyword which declares the indexer?

0/1

- ☒ a) base
- ☐ b) this
- ☐ c) super
- ☐ d) extract

✗

Correct answer

- ☒ b) this

✓ 14. Choose the operator/operators which is/are not used to access the [] operator in indexers? 1/1

- ☐ a) get
- ☐ b) set
- ☒ c) access
- ☐ d) all of the mentioned

✓

✓ 15. Which among the following are the advantages of using indexers? 1/1

- ☐ a) To use collection of items at a large scale we make use of indexers as they utilize objects of class that represent the collection as an array
- ☐ b) Indexers are also convenient as they can also make use of different types of indexers like int, string etc
- ☐ c) An indexer allows an object to be indexed such as an array
- ☒ d) All of the mentioned

✓



✓ 16. Choose the correct statement about properties describing the indexers?

1/1

- ☐ a) No need to use the name of the property while using an indexed property
- ☐ b) An indexer property should accept at least one argument
- ☐ c) Indexers can be overloaded
- ☒ d) All of the mentioned

✓

✗ 17. Choose the correct option among the following indexers which correctly allows to index in same way as an array?

0/1

- ☐ a) A class
- ☐ b) An interface
- ☐ c) A function
- ☒ d) A property

✗

Correct answer

- ☒ a) A class

✓

1/1

18. Select the modifiers which can be used with the properties?

- ☐ Private
- ☐ Public
- ☐ Protected Internal
- ☒ All of the mentioned

✓



✗ 19.To use the .NET Framework Data Provider for SQL Server, an application 0/1 must reference the \_\_\_\_\_ namespace.

- ☐ a) System.Data.Client
- ☐ b) System.Data.SqlClient
- ☒ c) System.Data.Sql
- ☐ d) None of the mentioned

✗

Correct answer

- ☒ b) System.Data.SqlClient

✗ 20.Choose the namespace which supports multithreading programming? 0/1

- ☐ a) System.net
- ☐ b) System.Linq
- ☐ c) System.Threading
- ☒ d) All of the mentioned

✗

Correct answer

- ☒ c) System.Threading



✓ 21. What does the following C# code snippet specify?

1/1

```
public Thread(ThreadStart start)
```

- ☐ a) Defines a thread
- ☐ b) Declaration of a thread constructor
- ☐ c) Only Defines a thread
- ☒ d) Only Defines a thread & Declaration of a thread constructor

✓

✗ 22. Which of these classes is used to make a thread?

0/1

- ☐ a) String
- ☐ b) System
- ☐ c) Thread
- ☒ d) Runnable

✗

Correct answer

- ☒ c) Thread



✗ 23. On call of which type of method the new created thread will not start executing? 0/1

- ☐ a) Begin()
- ☐ b) Start()
- ☒ c) New()
- ☐ d) All of the mentioned

✗

Correct answer

- ☒ b) Start()

✓ 24. Which of these methods of Thread class is used to Suspend a thread for a period of time? 1/1

- ☒ a) sleep()
- ☐ b) terminate()
- ☐ c) suspend()
- ☐ d) stop()

✓



✗ 25. Which keyword is used for using the synchronization features defined by the Monitor class? 0/1

- ☐ a) lock
- ☐ b) synchronized
- ☒ c) monitor
- ☐ d) locked

✗

Correct answer

- ☒ a) lock

✗ 26. Which of these keywords are used to implement synchronization? 0/1

- ☐ A. synchronize
- ☐ B. syn
- ☒ C. synch
- ☐ D. synchronized

✗

Correct answer

- ☒ D. synchronized



✗ 27. Which method is called when a thread is blocked from running temporarily?

0/1

- ☐ A. Pulse()
- ☐ B. PulseAll()
- ☒ C. Wait()
- ☐ D. Both A and B

✓ 28. Which of these class is used to make a thread?

1/1

- ☐ a) String
- ☐ b) System
- ☒ c) Thread
- ☐ d) Runnable

✓

✓ 29. Which of these method of Thread class is used to Suspend a thread for a period of time?

1/1

- ☒ a) sleep()
- ☐ b) terminate()
- ☐ c) suspend()
- ☐ d) stop()

✓



✓ 30. what will be the output of following code?

1/1

```
public static void Main()
{
 int k;
 display(k);
}

static void display(int val = 0)
{
 Console.Write(val);
}
```

- ☐ Null
- ☐ 0
- ☒ compile time error
- ☐ runtime error

✓

✗ 31. Which of the following statements is correct about a delegate?

0/1

- ☒ inheritance is a prerequisite for using delegates
- ☐ delegates are not type safe
- ☐ delegates provides wrappers for function pointers
- ☐ none of the mentioned

✗

Correct answer

- ☒ delegates provides wrappers for function pointers





✗ 32. The infrastructure that supports these dynamic operations at run time is 0/1  
called the.....

- ☒ CLR
- ☐ CTS
- ☐ CLS
- ☐ DLR

✗

Correct answer

- ☒ DLR

✓ 33. In C#, having unreachable code is always a/an .....

1/1

- ☐ method
- ☐ function
- ☒ error
- ☐ iterative

✓

✓ 34. C# treats the multiple catch statements like cases in a ..... statement

1/1

- ☐ if
- ☐ for
- ☐ while
- ☒ switch

✓



✓ 35. Which component in Asp.net MVC can be used to pass data between controller to view (Assume you have to pass current date and time) 1/1

- ☐ ViewData["DateTime"] = DateTime.Now.ToString();
- ☒ ViewBag["DateTime"] = DateTime.Now.ToString();
- ☐ ViewState["DateTime"] = DateTime.Now.ToString();
- ☐ DataView["DateTime"] = DateTime.Now.ToString();



✗ 36. Choose the correct statement among the followings?

0/1

- ☒ Indexers are location indicators
- ☐ Indexers are used to access class objects
- ☐ Indexer is a form of property and works in the same way as a property
- ☐ All of the mentioned



Correct answer

- ☒ All of the mentioned



✓ 37.State whether the following statements about the Microsoft Intermediate Language (MSIL) are TRUE or FALSE. 1/1

i) The MSIL code includes instructions to load, initialize and invoke methods on objects

ii) The MSIL code is collected and assembled in the form of byte codes and is converted to a .NET assembly

☐ ) i-True, ii-False

☐ ) i-False, ii-True

☒ i-True, ii-True



☐ i-False, ii-False

✓ 38.What function modifier can be put on a method in a base class to allow the child to override it? 1/1

☐ Abstarct

☐ Sealed

☒ Virtual



☐ Must Override

✓ 39. .... ensures complete interoperability among applications, regardless of the language used to create the application 1/1

☐ CLR

☐ CTS

☒ CLS



☐ FCL



✖ 40.How do you manage states in an ASP.NET application?

0/1

- ☐ Viewstate
- ☐ Application Objects
- ☒ Session Objects
- ☐ All of the above

✖

Correct answer

- ☒ All of the above

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