1. 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.
2. Which of the following are valid .NET CLR JIT performance counters?
   1. Total memory used for JIT compilation
   2. Average memory used for JIT compilation
   3. JIT is available only for Linux OS
   4. Percentage of processor time spent performing JIT compilation

3. Which of the following statements is correct about Managed Code?

* 1. Managed code is the code that is compiled by the JIT compilers.
  2. Managed code is the code where resources are Garbage Collected.
  3. Managed code is the code that runs on top of Windows.
  4. Managed code is the code that is written to target the services of the CLR.

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

* 1. gacutil
  2. ngen
  3. sn
  4. dumpbin

5. 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.

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| 6. 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 | |  | 1. Common Language Runtime | |  | 1. Common Language Infrastructure | |  | 1. Component Object Model | |  | 1. Common Type System | |

7.Which of the following .NET components can be used to remove unused references from the managed heap?

1. Common Language Infrastructure
2. CLR
3. Garbage Collector
4. Class Loader
5. CTS

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| 8. Which of the following statements correctly define .NET Framework? |
| |  |  | | --- | --- | |  | a. It is an environment for developing, building, deploying and executing Desktop Applications, Web Applications and Web Services. | |  | b. It is an environment for developing, building, deploying and executing only Web Applications. | |  | c. It is an environment for developing, building, deploying and executing Distributed Applications. | |  | d. It is an environment for developing, building, deploying and executing Web Services. | |  | e. It is an environment for development and execution of Windows applications. |   9. Which of the following assemblies can be stored in Global Assembly Cache?   1. Private Assemblies 2. Friend Assemblies 3. Shared Assemblies 4. Public Assemblies 5. Protected Assemblies   10. Code that targets the Common Language Runtime is known as   1. Unmanaged 2. Distributed 3. Legacy 4. Managed Code 5. Native Code   11. Which of the following statements is correct about the .NET Framework? |
| 1. NET Framework uses DCOM for achieving language interoperability. 2. .NET Framework is built on the DCOM technology. 3. .NET Framework uses DCOM for making transition between managed and unmanaged code. 4. .NET Framework uses DCOM for creating unmanaged applications. 5. .NET Framework uses COM+ services while creating Distributed Applications. |

12. Which of the following is the root of the .NET type hierarchy?

1. System.Object
2. System.Type
3. System.Base
4. System.Parent

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| 13. | Which of the following benefits do we get on running managed code under CLR?   1. Type safety of the code running under CLR is assured. 2. It is ensured that an application would not access the memory that it is not authorized to access. 3. It launches separate process for every application running under it. 4. The resources are Garbage collected. 5. All of the above |
|  |

14. Which of the following security features can .NET applications avail?

1. PIN Security
2. Role Based Security
3. Authentication Security
4. Biorhythm Security

15. Which of the following jobs are done by Common Language Runtime?

1. It provides core services such as memory management, thread management, and remoting.
2. It enforces strict type safety.
3. It provides Code Access Security.
4. It provides Garbage Collection Services.
5. All of the above

|  |  |
| --- | --- |
| 16. | Which of the following statements are correct about a .NET Assembly?   1. An assembly can be a Shared assembly or a Private assembly. 2. An assembly can contain only code and data. 3. An assembly is always in the form of an EXE file. 4. It will run only on 64 Bit Windows OS |
|  |

17. **type checking for ….types of variables takes place at run-time.**

A. value.

**B. dynamic.**

C. managed.

D. unmanaged.

18. **…. is implicit type to store variant type of data like an Object type but it must be initialized.**

A. string type.

B. ref type.

C. value type.

**D. var type.**

**19. A Basic difference between int.Parse() and TryParse() is.**

A. Parse returns int and TryParse return string.

B. Parse convert int to string and TryParse convert string to int.

**C. Parse() method throws an exception if it cannot parse the value, whereas TryParse() method returns a bool indicating whether it succeeded.**

D. None of the Above..

**20. To cast Value type to Object Type This process is known as .**

A. Un-boxing.

B. Type Casting.

C. Type Safety.

**D. Boxing.**

**21. 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?**

**A. Framework Class Library**

B. Common Language Runtime

C. Common Language Infrastructure

D. Component Object Model

E. Common Type System

**22. Provide us Type Safety and Language interoperability in CLR?**

**A. CTS**

B. CLS

C. MSIL

D. None of above

**23. Which of Following is not type of JIT?**

A. Econo JIT

**B. Post-JIT**

C. Normal-JIT

**24.These are unified types in C#?**

1. Classes and Struct.

**b. Value Types and Ref. Types.**

1. OOP and Non-OOP
2. Heap and Stack.

**25.“Is” and “as” these keywords are used to?**

**A. check its compatibility and perform type casting.**

B. perform Garbage Collection.

C. check equality.

D. perform operator overloading.

26. The default scope for the members of an interface is \_\_\_\_\_.

1. private
2. public
3. protected
4. internal

27. Which of the following statements is incorrect about delegate?

1. Delegates are reference types.
2. Delegates are object-oriented.
3. Delegates are type-safe.
4. Only one can be called using a delegate.

28. The space required for structure variables is allocated on the stack.

1. True
2. False
3. Maybe
4. Can’t say

29. Which of the following is incorrect about constructors?

1. Defining of constructors can be implicit or explicit.
2. The calling of constructors is explicit.
3. Implicit constructors can be parameterized or parameterless.
4. Explicit constructors can be parameterized or parameterless.

30. Reference is a \_\_\_.

1. Copy of class which leads to memory allocation.
2. Copy of class that is not initialized.
3. Pre-defined data type.
4. Copy of class creating by an existing instance.

31. 7. The data members of a class by default are?

1. protected, public
2. private, public
3. private
4. public

32. .  The correct way to overload +operator?

1. public sample operator +  (sample a, sample b)
2. public abstract operator +  (sample a, sample b)
3. public static operator +  (sample a, sample b)
4. all of the mentioned above

33.Select the two types of threads mentioned in the concept of multithreading?

1. Foreground
2. Background
3. Only foreground
4. Both foreground and background

34. Choose the wrong statement about properties used in C#.Net?

1. Each property consists of accessor as getting and set.
2. A property cannot be either read or write-only.
3. Properties can be used to store and retrieve values to and from the data members of a class.
4. Properties are like actual methods that work like data members.

35. Which of the following keywords is used to refer base class constructor to subclass constructor?

1. this
2. static
3. base
4. extend