

1. The ... is the execution engine for .NET applications and servers as the interface between .NET applications and the operating system.

- A) Common Language Specifications (CLS)
- B) Common Language Runtime (CLR)**
- C) Common Type System (CTS)
- D) Framework Class Library (FCL)

2. The .NET Framework Class Library (FCL) is also known as ...

- A) Base Class Library (BCL)**
- B) Common Class Library (CCL)
- C) Global Class Library (GCL)
- D) Public Class Library (PCL)

3. State whether the following statements about .NET Frameworks are TRUE or FALSE.

- i) The .NET FCL is object-oriented.
  - ii) The CLR is the platform on which applications hosted and executed.
- A) i-True, ii-False
  - B) i-False, ii-True
  - C) i-True, ii-True**
  - D) i-False, ii-False

4. The .NET ... is a collection of reusable types that are integrated with the CLR.

- A) Common Language Specifications (CLS)
- B) Common Language Runtime (CLR)
- C) Common Type System (CTS)
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5. ... is an agreement among language designers and class library designers to use a common subset of basic language features that all languages have to follow.

- A) Common Language Specifications (CLS)**
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6. ... describes how types are declared, used, and managed in the runtime.

- A) Common Language Specifications (CLS)
- B) Common Language Runtime (CLR)
- C) Common Type System (CTS)**
- D) Framework Class Library (FCL)

7. State which of the following statements about the .NET framework are TRUE.

- i) CTS helps developers to develop applications in a single language.
  - ii) Data and XML classes extend the FCL to support data management and XML manipulation.
  - iii) XML classes support various operations on XML data like searching, translations, modifying, etc.
- A) i and ii only
  - B) ii and iii only**
  - C) i and iii only
  - D) All i, ii and iii

8. ... is a code that consists of CPU and platform-independent set of instructions, which can be easily converted to native code.

- A) JIT
- B) FCL
- C) DLL
- D) MSIL**

9. State whether the following statements about the Microsoft Intermediate Language (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

10. The main function of ... is to convert the managed code into native code and then execute the code.

- A) **CLR**
- B) CTS
- C) CLS
- D) FCL

11. Which of the following is/are the modules of Common Language Runtime(CLR).

- i) Thread Support
- ii) Type Checker
- iii) Security Engine
- A) i and ii only
- B) ii and iii only
- C) i and iii only
- D) **All i, ii and iii**

12. ... will verify types used in the application with CTS or CLS standards supported by CLR.

- A) Exception manager
- B) **Type checker**
- C) Code manager
- D) Class loader

13. The ... is responsible for allocating, freeing, and compacting memory.

- A) **garbage collector**
- B) type checker
- C) code manager
- D) memory manager

14. The ... compiles the applications to Microsoft Intermediate Language (MSIL) and not the machine code.

- A) **CLR**
- B) CTS
- C) CLS
- D) FCL

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.
- 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

16. ... ensures complete interoperability among applications, regardless of the language used to create the application.

- A) CLR
- B) **CLS**
- C) CTS
- D) FCL

17. State which of the following statements about the Namespace are TRUE.

- i) All the classes and types of .NET FCL are organized in the namespace.
- ii) Namespaces correspond to file or directory names.
- iii) It is the grouping of logically related identifiers or classes.
- A) i and ii only
- B) ii and iii only

- C) **i and iii only**
- D) All i, ii and iii

18. The ... namespace includes classes and interfaces that define the various collections of objects such as lists, queues, hash tables, arrays, etc.

- A) **system.collection**
- B) system
- C) system.data
- D) system.drawing

19. The ... namespace includes classes that allow us to debug our application and to step through our code.

- A) system.collection
- B) system.security
- C) **system.diagnostics**
- D) system.threading

20. The ... namespace includes classes and interfaces that return information about types, methods, and fields.

- A) system
- B) system.security
- C) system.data
- D) **system.reflection**