NET Module 2 Test

1: The basic unit of concurrency in .NET is a _____
(a) process
(b) task
(c) task ✓

2: Under .NET the managed id of main thread is always _____.
(a) 1 ✓
(b) 2
(c) 3

3: Give threads x and y such that thread x invokes y.Join() then _____.
(a) y will wait for x to exit
(b) x will wait for y to exit ✓
(c) x will wait for x to exit

4: The value of static field of a class is _____.

(a) shared by all the threads ✓

(b) assigned separately to each thread

(c) only visible to main thread

5: A thread that owns the monitor assigned to object x, temporarily releases this monitor using expression _____.

(a) Monitor.Exit(x)

(b) Monitor.Wait(x) ✓

(c) Monitor.Pulse(x)

6: An async qualified method yields a task to its caller using _____ statement.

(a) return

(b) await ✓

(c) yield

7: System.IO._____ can be used to obtain size of the file without opening it.

(a) File

(b) FileStream

(c) FileInfo ✓

8: Creating a file-stream with FileMode.Create will cause exception if the target file _____.
(a) does not exist
(b) exists
(c) exists but is read-only ✓

9: The XML serializer gathers serialization data from the _____ of the target object.
(a) instance fields
(b) public instance fields and properties ✓
(c) instance properties

10: System.Net.Sockets._____ opens a socket for streaming data between two endpoints.
(a) TcpClient ✓
(b) TcpListener
(c) UdpClient

11: In IPv4, _____ address is reserved for listening on all addresses available on local machine
(a) 255.255.255.255

(b) 127.0.0.1

(c) 0.0.0.0 ✓

12: The address 127.0.0.1 is also called _____ address.

(a) broadcast

(b) loopback ✓

(c) any

13: Only class _____ address can be used for multicasting data-grams.

(a) A

(b) C

(c) D ✓

14: The default port used by HTTP server is _____.

(a) 80 ✓

(b) 25

(c) 110

15: Under HTTP, a response status code beginning with digit 5 indicates _____.

(a) success

(b) server error ✓

(c) client error

16: HTTP verb _____ is used for updating a resource on the server.

(a) GET

(b) POST

(c) PUT ✓

17: Named pipes are commonly used for cross -_____ communication.

(a) thread

(b) process ✓

(c) machine

18: Under .NET data-provider, the connection object handles _____.

(a) communication session ✓

(b) execution of SQL commands

(c) fetching of rows of a table

19: Execute_____ method of command object should be used for executing following SQL
SELECT COUNT(*) FROM Suppliers
(a) Reader
(b) NonQuery
(c) Scalar ✓

20: The data-provider for SQL server used _____ as a prefix for each parameter name.
(a) @ ✓
(b) :
(c) ?

21: The default parameter direction is _____.
(a) Input ✓
(b) Output
(c) InputOutput

22: A transaction is _____ if it always ends with either commit or rollback.

(a) atomic

(b) durable ✓

(c) consistent

23: In entity framework, _____ connects entity classes to database.

(a) DbSet

(b) DbContext ✓

(c) DbConnection

24: Supplier is a parent entity of Item entity, according to conventional mapping _____ property of Item represents foreign key.

(a) Id

(b) ItemId

(c) SupplierId ✓

25: Composite primary key can only be mapped using _____.

(a) Fluent API ✓

(b) Data Annotations

(c) Mapping Conventions

26: gRPC uses _____ for transport between server and client.

(a) TCP

(b) HTTP/1

(c) HTTP/2 ✓

27: In N-tier architecture, the UI is implemented by _____ tier.

(a) data

(b) middle

(c) presentation ✓

28: In ASP.NET core a request is passed through a chain of _____.

(a) middlewares ✓

(b) services

(c) controllers

29: A service added using _____ method has the shortest life-time

(a) AddScoped

(b) AddTransient ✓

(c) AddSingleton

30: In MVC pattern, _____ receives users commands and passes them to other two.

(a) model

(b) view

(c) controller ✓

31: Razor pages use _____ to publish dynamic web content.

(a) model and view ✓

(b) model and controller

(c) view and controller

32: In razor syntax, value of server-side variable x can be emitted using_____.

(a) {x}

(b) @x ✓

(c) ${x}

33: MapDefaultControllerRoute method sets the default controller name to _____.

(a) Index

(b) Welcome

(c) Home ✓

34: Each COM interface extends the standard _____ interface.

(a) IUnknown ✓

(b) IDispatch

(c) IClassFactory

35: The life-time of a COM object is managed by the _____.

(a) garbage collector

(b) COM runtime

(c) object itself ✓

36: In COM interop _____ enables managed code to consume COM interfaces of a native component object.

(a) RCW ✓

(b) CCW

(c) PCW

37: In Windows Forms output is rendered as _____ graphics.

(a) scalar

(b) vector

(c) raster ✓

38: In WPF, layout of the UI is specified using a markup language known as _____.

(a) XML

(b) XAML ✓

(c) SGML

39: Windows Forms _____ control only supports simple data binding.

(a) TextBox ✓

(b) ComboBox

(c) DataGridView

40: In MVVM pattern _____ receives user's input.

(a) Model

(b) View ✓

(c) ViewModel