

CS411-Visual Programming

MIDTERM (HADI VU PAST PAPER)

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Question # 1: A class can inherit from _____ class/classes.

- Two
- **Single** [Click here for more detail](#)
- Three
- Multiple

Question # 2: During the program execution, program can be stopped with the help of _____.

- Attributes
- Compiler
- Exception Handling

○ **Breakpoints** **Page#47**

Question # 3: Types not defined in any namespace are said reside in the _____ namespace.

- Local
- Static
- Virtual
- **Global** [Click here for more detail](#)

بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

Question # 4: Indexers are similar to properties, but are accessed via a/an _____ rather than a property name.

- **Index Argument** [Click here for more detail](#)
- Reference
- Pointer
- Integer Argument

Question # 5: At the time an event is fired, the _____ methods will be invoked.

- **Registered** [Click here for more detail](#)
- Public
- Static
- Unregistered

Question # 6: Which of the following does NOT include in event processing operations?

- Deleting Events
- Reading Events

○ **Terminating Events** **Page # 8**

- Transforming Events

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Question # 7: The result of Exception can bring_____in the program.

- Reliability
- Stability
- **Inconsistency (Page # 40)**
- Consistency

Question # 8: Cool stands for_____.

- Class Oriented Object Language
- Consumer Oriented Object Language
- **C-like Object Oriented Language Page # 13**
- C++-like Object Oriented Language

The initial name was "Cool", which stood for "C-like Object Oriented

Question # 9: Graphical user interfaces and the event-driven model is not applied on which of the following?

- Web Application
- **Console Application Page # 5**
- Mobile Application
- Desktop Application

Graphical user interfaces and the event-driven model as applied to desktop, web, and mobile applications.

Question # 10: The easiest way to declare an event is to put the event keyword in front of a _____ member.

- Interface
- **Delegate** [Click here for more detail](#)
- Class
- Struct

Question # 11: Which of the following does NOT include in event processing operations?

- Deleting Events
- Reading Events
- **Terminating Events** **Page # 8**
- Transforming Events

Event processing operations include reading, creating, transforming, and deleting events.

Question # 12: Events are based on the principle of _____.

- Request
- Response
- Coupling
- **Decoupling** **Page # 13**

Events are based on the principle of decoupling.

Question # 13: _____ methods do not have names.

- Attribute
- **Anonymous** Page # 53
- None of given
- Non-Anonymous

Anonymous method is a method without a name.

Question # 14: _____ is an entity that receives events from the system.

- Event Producer
- **Event Consumer** Page # 14
- Event Channel
- Event Generator

EVENT CONSUMER: An event consumer is an entity at the edge of an event processing system that receives events from the system.

Question # 15: An event is a list of _____.

- constants
- variable
- pointers
- **Delegates**

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Question # 16: _____ is an occurrence within a particular system or domain.

○ Function

○ **Event** Page # 10

○ Information

○ Transaction

So what is an event. Its an occurrence within a particular system or domain.

Question # 17: Which of the following is an occurrence within a particular system or domain?

○ Object

○ **Event** Page # 10

○ Result

○ Message

So what is an event. Its an occurrence within a particular system or domain.

Question # 18: Which statement is true?

- A "catch" block always executes whether or not an exception is thrown and whether or not the "try" block runs to completion.
- A "finally" block executes only, when an exception is thrown and when the "try" block runs to completion.
- A "finally" block may or may not executes whether or not an exception is thrown and whether or not the "try" block runs to completion.
- **A "finally" block always executes whether or not an exception is thrown and whether or not the "try" block runs to completion. [click here for more detail](#)**

Question # 19: Clean room design is also called_____.

- Clear Room Design
- Wall Technique Design
- **Chinese Wall Technique Page # 17**
- French Wall Technique

Clean room design (also known as the Chinese wall technique)

Question # 20: Clean room design is useful as a defense against_____.

- Copyright
- Trade secret infringement
- **Copyright and trade secret infringement (Page # 17)**
- None of the given options

Clean room design is useful as a defense against copyright and trade secret infringement because it Relies on independent invention.

Question # 21: Which of the following is an entity that introduces event into the system?

- Event Channel
- Event Stream
- Event Consumer
- **Event Producer Page#14**

EVENT PRODUCER: An event producer is an entity at the edge of an event processing system that introduces events into the system.

Question # 22: Anonymous methods_____the code size.

- Double
- Expand
- **Reduce Page#46**
- Extend

Anonymous methods result in much less code

Question # 23: Which of the following is built from request-response?

- Event-processing Architecture (EDA)
- Service-driven Architecture (SDA)
- **Service-oriented Architecture (SOA) Page # 13**
- Event-based Architecture (EBA)

Service-oriented architecture (SOA) is built from request-response.

Question # 24: The System.Console is a _____ which enables us to do Console Input and Output.

- Structure
- **Class (Page#14)**
- Namespace
- Library

Question # 25: _____ events may or may not relate to an actual occurrence.

- Observed Events
- Deducted Events
- **Probabilistic Events (Page#10)**
- None of the above

Probabilistic events may or may not relate to an actual occurrence e.g. a fraud detection event on a banking transaction.

Question # 26: Which of the following events may or may not relate to an actual occurrence?

○ **Probabilistic Events** (Page#10)

- Actual Events
- Real Events
- Expected Events

Probabilistic events may or may not relate to an actual occurrence e.g. a fraud detection event on a banking transaction.

Question # 27: _____ events may or may not relate to an actual occurrence

○ **Probabilistic** page # 10

- Event properties
- Layer
- Properties

Probabilistic events may or may not relate to an actual occurrence e.g. a fraud detection event on a banking transaction.

Question # 28: _____method reads the whole document in memory.

- **XmlDocument** **Page # 48**
- XmlLine
- XPath
- XmlReader

There are two methods to read XML document. Using XmlDocument and XmlReader.
XmlDocuments reads entire document in memory

Question # 29: Event-based programming is also known as:

- Service-oriented architecture (SOA)
- **Event-driven Architecture (EDA)** **Page # 13**
- Service-driven Architecture (SDA)
- Event-based Architecture (EBA)

Event-based programming, also called event-driven architecture (EDA)

Question # 30: Wait for a single event is _____operation.

- Waiting
- Waste
- Idle

- **Blocking** **Page # 10**

Wait for a single event is blocking operation.

Question # 31: The Main method returns a non-zero value which indicates the_____.

- Source of Program
- **Error in Program** [click here for more detail](#)
- Termination of Program
- Exception in Program

CS411 QUIZ # 2

2014 and 2015

From (11 to 21) Lectures

Question # 32: `System.Windows.Controls.Button b = new System.Windows.Controls.Button(); b.Content = "OK";` For the above code (written in C#) the corresponding XAML code will be:

- `<Button xmlns=http://schemas.microsoft.com/winfx/2006/xaml/presentation Content="OK"/>` **Page # 71**
- `<Button xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation" Content="OK"/>`
- `<Button xmlns=http://schemas.microsoft.com/winfx/2006/xaml/presentation Event="OK"/>`
- `<Button xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation" Call="OK"/>`

Question # 33: If we want to move an object in the 2-D x-y coordinate system then which transform class will be used?

- **Translate Transform** **Page # 89**
- Skew Transform
- Skew Transform
- Rotate Transform

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Question # 34: If we want to scale an object in the 2-D x-y coordinate system then which transform class will be used?

- Rotate Transform
- Matrix Transform
- **Translate Transform** **Page # 89**
- Skew Transform

Question # 35: Which of the following is/are not derived from "Control" class?

- ListBox
- StatusBar
- Both of above
- **None of the given** **(Page#73)**

Question # 36: Which of the following is/are not derived from "Control" class?

- ListBox
- StatusBar
- Both of above
- **None of the given** **(Page#73)**

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Question # 37: Which of the following is/are not derived from "Control" class?

- ☐ ListBox
- ☐ StatusBar
- ☐ **None of the given (Page#73)**
- ☐ Button

Question # 38: WPF4 was released in_____.

- ☐ 2012
- ☐ **2010** [Click here for detail](#)
- ☐ 2005
- ☐ 2003

Question # 39: Suppose we want to restrict the user to don't decrease the height of a WPF element from a specific amount then which property will be used?

- ☐ HeightMinimum
- ☐ MinimumHeight
- ☐ **MinHeight Page # 83**
- ☐ None of the given

Question # 40: Which property will be used if we want to restrict the user to don't increase the width of a WPF element from a specific amount?

○ **MaxWidth** **Page # 91**

- MaximumWidth
- WidthMaximum
- None of given options

Question # 41: XAML specification defines rules that map ".NET" namespaces, types, properties, and events into_____. I) XML namespaces II) XML elements III) XML Attributes

- Only
- Only

○ **(I), (II) and (III) only** **Page # 71**

- Only

XAML specification defines rules that map .NET namespaces, types, properties, and events into XML namespaces, elements, and attributes. Lets see XAML and equivalent C#.

Question # 42: Dependency properties are represented by_____.

- **System.Windows.DependencyProperty (Page 77)**
- System.Windows.Dependency.Property
- System.Windows.Dependency
- System.Windows.Property.Dependency

Dependency properties are represented by System.Windows.DependencyProperty. By convention, public static and Property suffix are used.

Question # 43: Extension methods can only be defined in class.

- Dynamic class
- Normal class
- String class
- **Static class** [click here for more detail](#)

Question # 44: Extension methods_____access the private data members of the class in which they are extended.

- May
- **Cannot** [click here for more detail](#)
- May not
- Can

Question # 45: _____ allows to keep the user interface description and implementation separate.

- GDI
- **WPF (Page 69)**
- Avalon
- Altia

WPF allows to keep user interface description and implementation separate.

Question # 46: In context of XAML child element rules, if the child is plain text and a type converter exists to transform the child into the parent type (and no properties are set on the parent element), treat the child as the input to the type converter and use the output as the_____.

- **Parent object instance Page # 75**
- Interface object instance
- none
- Child object instance

If the child is plain text and a type converter exists to transform the child into the parent type (and no properties are set on the parent element), treat the child as the input to the type converter and use the output as the parent object instance.

Question # 47: We use "UIElement" property ClipToBounds= "True" when _____.

- We want area of child element is allowed to cross the boundary of parent
- Parent area also increases on increasing of area of child element
- None of given
- We want area child element don't cross the boundary of parent



ClipToBounds="False"



ClipToBounds="True"

Question # 48: BAML is compressed representation of _____.

- CAML:NS
- XAML
- XAML:NS
- CAML

Page # 77

BAML is binary application markup language. It just a compressed representation of XAML.

ایماندار کو غصہ دیر سے آتا ہے اور جلدی دور ہو جاتا ہے

Question # 49: AML is compressed representation of_____.

☐ CAML:NS

☒ **XAML** Page # 77

☐ XAML:NS

☐ CAML

Question # 50: If we exclude the mechanism of calling the objects through name then:

☒ **Code will not compile**

☐ Code will be difficult to debug

☐ Code will have errors

☐ Code will become design dependent

Question # 51: "viewbox" element use different types of stretching with the help of stretch property. There is/are_____possible value(s) of stretch.

☐ 1

☒ 4

☐ 2

☐ 3

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Question # 52: BAML stands for:

- binary application map language
- binary application markup linkage

○ **binary application markup language**

Page # 77

- binary application map linkage

BAML is binary application markup language.

Question # 53: Which is the right syntax to define an interface?

- **Interface imyinterface**

```
{  
Void methodtoimplement();  
}
```

Page # 40

- Interface imyinterface

```
{  
Void methodtoimplement  
}
```

- Interface imyinterface

```
{  
Void implement();  
}
```

- Interface imyinterface

```
{  
Void method();  
}
```

Interfaces can also be inherited.

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Question # 54: If we want to place a component at top in "dockpanel" then which one is correct syntax?

- PanelDock="Top"
- Dock="Top"
- **DockPanel.Dock="Top" Page # 101**
- DockPanel="Top"
- **<Button DockPanel.Dock="Top" Background ="Red">1 (Top)</Button >**

Question # 55: Dock panel allows easy docking of elements to an entire side.

- **True Page # 101**
- False

Dock panel allows easy docking of elements to an entire side. Dock attached property has left, right, top, bottom values

Question # 56: _____processing operations include reading, creating, transforming, and deleting events.

- Observed Events
- **Common event (Page#10)**
- Deducted Events
- Probabilistic Events

Common event processing operations include reading, creating, transforming, and deleting events.

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Question # 57: The _____ in the namespace indicate a hierarchy of nested namespaces.

- Arrows
- **Dots** [click here for more detail](#)
- Semicolon
- Brackets

The dots in the namespace indicate a hierarchy of nested namespaces.

Question # 58: The interface forces each component to expose specific _____ members that will be used in a certain way.

- **Public** (Page# 40)
- Private
- Both of above
- None of the given

The interface forces each component to expose specific **public** members that will be used in a certain way.

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Question # 59: Static ctor exists to initialize class static members and called only_____.

- **Once (Page # 28)**
- Twice
- Anytime
- All of the given

Static ctor exists to initialize class static members. Its called **only once**.

Question # 60: Static ctor exists to initialize class static members and has many parameters.

- True
- **False (Page #28)**

Static ctor exists to initialize class static members. Its called **only once**.

Question # 61: Interfaces define a contract.

- **True Page # 40**
- False

Interfaces define a contract.

اللہ کا خوف سب سے بڑی دانائی ہے

Question # 62: Additional XML namespaces (on the root or on children) must be _____ to be used on any identifiers from that namespace.

- Given a common prefix
- Qualified with "Pre" keyword
- **Given a distinct prefix** **Page # 71**
- Qualified with "Ext" keyword

Question # 63: We want the width of button should cover the whole width of StackPanel in WPF then what should be value of Horizontal Alignment property of button?

- Parent
- Whole
- Fill

○ **Stretch** **(Page#97)**

Question # 64: The root object element in XAML must specify at least _____ XML namespace that is used to qualify itself and any child elements.

- **one** **(Page # 71)**
- two
- three
- five

The root object element in XAML must specify at least one XML namespace

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Question # 65: In event-driven architecture (EDA), _____ sends event to _____.

- ☐ Event Consumer, Event Producer
- ☒ **Event Producer, Event Consumer (Page#13)**
- ☐ Event Handler, Event Producer
- ☐ Event Generator, Event Producer

Question # 66: Auto-implemented properties do not allow simplified syntax.

- ☐ True
- ☒ **False (Page # 35)**

Auto-implemented properties improve the common-case we saw. Here is the same example using auto-implemented properties. Properties have the same idea as getters and setters. They just allow simplified syntax.

Question # 67: The initial name for C# was _____.

- ☐ COAL
- ☐ COOP
- ☐ COAP
- ☒ **COOL (Page#17)**

Where do the name for C# comes from. The initial name was “Cool”, which stood for “C-like Object Oriented Language”.

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Question # 68: Events may live _____ events like in event logs.

- ☐ Inside
- ☒ **Outside (Page # 13)**
- ☐ Both of above
- ☐ None of the given

Question # 69: If we run the program from within Visual Studio, the console window disappears quickly so we can use _____ to keep screen from going away.

- ☒ **Console.ReadLine() (Page#18)**
- ☐ Console.WriteLine()
- ☐ Console.Title
- ☐ Console.Clear

Question # 70: Types of class members in C# are _____ and _____.

- ☐ static, instance
- ☒ **instance, static (Page # 28)**
- ☐ public, private
- ☐ static, private

Question # 71: Mapping to the WPF namespaces is _____ in-side the WPF assemblies.

- ☐ Specified at compile time
- ☒ **Hard-coded (Page # 13)**
- ☐ None of the given
- ☐ Dynamically specified

Question # 72: Polymorphism needs the signatures to be the _____.

- ☐ Different
- ☒ **Same (Page # 29)**
- ☐ Alternative
- ☐ None of the given

Question # 73: The code given below is equivalent to _____.
<SolidColorBrush>White</SolidColorBrush>

- ☐ <WhiteBrush >MyWhiteBrush </ WhiteBrush>
- ☒ **<SolidColorBrush Color="White"/> (Page # 72)**
- ☐ <Brush Style= "SolidWhite" >
- ☐ None of the given options

Question # 74: An indexer enables your class to be treated like a/an_____.

- ☐ Class
- ☐ Function
- ☒ **Array** (Page # 35)
- ☐ Pointer

Question # 75: Reference types hold a reference to an object in memory.

- ☒ **True** (Page # 38)
- ☐ False

Question # 76: Attributes of a program can be queried at run time through_____.

- ☒ **Reflection** [click here for more detail](#)
- ☐ Value
- ☐ Reference
- ☐ Extension

Question # 77: Object variables are references to the_____object not the object themselves.

- ☒ **Original** (Page#24)
- ☐ Alternative
- ☐ Primary
- ☐ None of the given

Question # 78: Console class can reside in multiple libraries.

- **True (Page # 27)**
- False

Question # 79: _____ is built from request-response and it moves away from monolithic applications.

- Event-driven architecture (EDA)
- **Service-oriented architecture (SOA) (Page # 13)**
- Both of above
- None of the given option

Question # 80: It is always possible to create an instance of a reference type.

- True
- **False (Page # 18)**

Question # 81: Visual Studio has a snippet called _____ that automatically expands into a definition of a dependency property, which makes defining one much faster than doing all the typing yourself!

- **Propdp (Page # 84)**
- Property extension
- Dpprop
- Dependency property

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Question # 82: CLI stands for:

- Common Language Interface
- Common Language Instruction
- **Common Language Infrastructure (Page # 18)**
- Common Language Iteration

Question # 83: _____ is said to be stateless if the way it processes one event does not influence the way it processes any subsequent events.

- Event Producer
- Raw Event
- **Event Processing (Page#14)**
- Event Stream

Question # 84: “FrameworkElement” is the base class that adds support for_____.

- Some common mechanisms for Windows-based controls
- Data binding
- Styles
- **All of the given options (Page#79)**

Question # 85: _____ is basically array of arrays.

- ☐ Stack
- ☐ Pointer
- ☒ Jagged (Page # 23)
- ☐ Function

Question # 86: The using directive can be used to rename a long namespace in the current file.

- ☒ True (Page#27)
- ☐ False

Question # 87: Derived class is exactly the same as base.

- ☒ True (Page # 29)
- ☐ False

Question # 88: Cast back to base type to call a/an _____ method of base.

- ☐ Instance
- ☐ Base Class
- ☐ Derived Class
- ☒ Overridden (Page # 29)

خوبصورتی علم و ادب سے ہوتی ہے لباس و حسن سے نہیں

Question # 89: _____ invoke derived class methods through base class reference during run-time.

- Abstraction
- **Polymorphism** (Page # 29)
- Composition
- Association

Question # 90: _____ are inherited by classes which provide the real implementation.

- Functions
- Variables
- **Interfaces** (Page # 40)
- Objects

Question # 91: An object initializer is a syntax for initializing a struct without using a ctor.

- **True** (Page # 39)
- False

Question # 92: Attributes add _____ to your program.

- Clearance
- Errors
- **Meta Data** (Page#47)
- Ambiguity

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Question # 93: Enum of one type may not be _____ assigned to an enum of another type.

- ☒ **Implicitly** (Page#49)
- ☐ Explicitly
- ☐ Both of above
- ☐ None of the given

Question # 94: Default value of first member is _____.

- ☒ **0** (Page#50)
- ☐ 1
- ☐ 2
- ☐ 3

Question # 95: Namespaces do not allow name reuse.

- ☐ True
- ☒ **False** (Page # 27)

Namespaces allow name reuse.

Question # 96: Indexers can take any number of _____.

- ☐ Arrays
- ☐ Variables
- ☒ **Parameters** (Page # 36)
- ☐ All of these

Question # 97: Derived Event is:

- ☐ Introduced into an event processing system by an event consumer.
- ☒ **Generated as a result of event that takes place inside an event processing system. (Page#11)**
- ☐ Introduced into an event processing system by an event producer.
- ☐ A set of associated events.

Question # 98: _____ is a static class in the System namespace.

- ☒ **Console (Page # 18)**
- ☐ Pointer
- ☐ Variable
- ☐ Function

Question # 99: Value-types hold their value in _____ where they are declared.

- ☐ Variable
- ☐ Reference
- ☒ **Memory (Page # 38)**
- ☐ Object

Question # 100: We can add constructors to a struct and can also overload the default ctor which initializes everything to default values.

- ☐ True
- ☒ **False (Page#39)**

Question # 101: An initializer list can be used to use an alternate constructor.

☒ **True** (Page#28)

☐ False

Question # 102: C# event is a class member that is _____ whenever the event it was designed for occurs (fires).

☒ **Activated** (Page # 45)

☐ Deactivated

☐ Transformed

☐ Associated

Question # 103: A single exception can be handled differently.

☒ **True** (Page # 46)

☐ False

Question # 104: WPF stands for:

☐ Windows Powerful Foundations

☐ Windows Presentation Formations

☒ **Windows Presentation Foundations** (Page # 69)

☐ Windows Presentation Functions

Question # 105: Attribute parameters can be either positional parameters or named parameters.

- ☒ **True** (Page # 48)
- ☐ False

Question # 106: Which of the following statements is TRUE about raw event?

- ☒ **It is introduced into an event processing system by an event producer.** (Page # 14)
- ☐ It is generated as a result of event processing.
- ☐ It is introduced into an event processing system by an event consumer.
- ☐ It is a subscription mechanism for events.

Question # 107: Attributes can be used at design time by application development tools.

- ☒ **True** (Page # 47)
- ☐ False

Question # 108: Windows Presentation Foundations (WPF) was publicly announced in_____.

- ☐ 2000
- ☐ 2001
- ☐ 2002
- ☒ **2003** (Page # 69)

Question # 109: A delegate is a reference to a method.

- ☒ **True** (Page # 43)
- ☐ False

Question # 110: Syntax of struct and class are very_____.

○ **Similar** (Page # 38)

- Different
- Large
- Small

Question # 111: Events and_____work hand in hand.

- Parameters
- **Delegates** (Page # 45)
- Functions
- Data Members

Question # 112: C# is a_____and .NET is a_____.

- Platform, Language
- Package, Language
- Language, Package
- **Language, platform** (Page#17)

C# design most directly reflects .NET (CLR) design but C# is a language and .NET is the platform.

جھوٹ رزق کو کھا جاتا ہے

Question # 113: Named parameters come before positional parameters.

- ☐ True
- ☒ **False (Page#43)**

Question # 114: Stathread is stand for:

- ☐ Single Threaded Attribute model
- ☒ **Single Threaded Apartment model (Page # 48)**
- ☐ Single Threaded Authorized model
- ☐ Single Threaded Assumed model

STAThread is a common attribute you will see later. It stands for Single Threaded Apartment model which is used for communicating with unmanaged COM.

Question # 115: Structs can not have destructors.

- ☒ **True (Page # 38)**
- ☐ False

Question # 116: Instances of value types do not have referential identity.

- ☒ **True (Page # 18)**
- ☐ False

Question # 117: The "this" pointer in methods refers to the _____ on which the method is called.

- ☐ Function
- ☐ Class
- ☒ **Object (Page # 25)**
- ☐ Pointer

Question # 118: The _____, _____ and _____ of applications that use events, either directly or indirectly is called event-based programming.

- Model, Code, Operation
- Analyze, Design, Operation
- Code, Operation, Maintain
- **Design, Coding, Operation (Page # 10)**

Question # 119: Ctor return any values and it initializes class members.

- True
- **False (Page # 27)**

Question # 120: _____ processing is computing that performs operations on events.

- Transactional
- Functional
- **Event (Page # 10)**
- All of these

Question # 121: _____ is an event that is introduced into an event processing system by an event producer.

- Event Producer
- Event Consumer
- **Raw Event (Page # 14)**
- Event Stream

جو شخص ناکامیوں سے ٹر کر بھاگتا ہے کامیابی اُس سے ٹر کر بھاگتی ہے

Question # 122: Multiple_____are conventionally stored in multiple files.

- Functions
- Values
- Variables
- **Classes** (Page # 28)

Question # 123:_____are algorithms that operate on data.

- Variables
- Functions
- **Methods** (Page # 43)
- Classes

Question # 124:_____are unique types that allow you to assign symbolic names to integral values.

- Structures
- **Enumerations** (Page # 49)
- Typedefs
- Unions

Question # 125: Attributes are generally applied _____ in front of type and type member declarations.

- ☐ Logically
- ☒ **Physically (Page # 48)**
- ☐ Both of above
- ☐ None of given

Question # 126: _____ let any classes behave like an array.

- ☐ Properties
- ☐ Fields
- ☒ **Indexers (Page # 29)**
- ☐ Finalizers

Question # 127: Zero-based index is used in jagged arrays.

- ☒ **True (Page # 18)**
- ☐ False

Question # 128: _____ event consumer is an entity at the edge of an event processing system that receives events from the system.

- ☐ Event Producer
- ☒ **Event Consumer (Page#14)**
- ☐ Event Stream
- ☐ None of the given

Question # 129:_____are called by garbage collector.

- ☐ Constructors
- ☒ **Destructors (Page#28)**
- ☐ Both of above
- ☐ None of the given

Question # 130: Single Threaded Apartment model is used for communicating with unmanaged COM.

- ☒ **True (Page # 48)**
- ☐ False

Threaded Apartment model which is used for communicating with unmanaged COM

Question # 131:_____types have the notion of referential identity.

- ☐ Value
- ☒ **Reference (Page # 18)**
- ☐ Both of above
- ☐ None of the given

Question # 132:_____can leave your program in an inconsistent state by not releasing resources or doing some other type of cleanup.

- ☐ Functions
- ☒ **Exception (Page # 47)**
- ☐ Abstraction
- ☐ All of these

Question # 133: Default underlying type of an enum is_____.

☒ **int** (Page # 50)

- ☐ short
- ☐ long
- ☐ all of these

Question # 134: Anonymous method is a method without a name.

☒ **True** (Page # 53)

- ☐ False

Question # 135: There are_____methods to read XML document.

☒ **Two** (Page # 55)

- ☐ Three
- ☐ Four
- ☐ Five

There are two methods to read XML document. Using **XmlDocument** and **XmlReader**.

Question # 136: “out” parameters which are not used for return values or the “params” argument for variable arguments.

- ☐ True

☒ **False** (Page # 25)

“out” parameters which are used for return values or the “params” argument for variable arguments.

Question # 137: _____ is a base class similar to UIElement but for document-related pieces of content that don't have rendering behavior on their own.

- **ContentElement** (Page # 79)
- VisualElement
- SystemElement
- XAMLElement

Question # 138: _____ have already happened whereas _____ are asking something to happen.

- Requests, Events
- **Events, Requests** (Page # 13)
- Functions, Events
- Requests, Functions

Question # 139: The common type system of C# has _____ types and _____ types.

- Reference, Value
- **Value, Reference** (Page # 18)
- Function, Data
- Data, Function

جو شخص ناکامیوں سے ڈر کر بھاگتا ہے کامیابی اُس سے ڈر کر بھاگتی ہے

Question # 140: _____ operations are completed before the next operation can be started.

- Asynchronous
- **Synchronous (Page # 10)**
- Both of the above
- None of the given option

Question # 141: IsNumeric(string s) is a function of _____ class.

- Math class
- Program class
- String class
- **MyUtils class (Page#53)**

Question # 142: _____ add declarative information to your programs.

- **Attributes (Page # 47)**
- Functions
- Exception
- Objects

خود کو تمہیں سے بڑھ کر کوئی اچھا مشورہ نہیں دے سکتا

Question # 143: A compiled C# file is called_____.

- ☐ Compiled File
- ☐ Source File
- ☒ **Assembly File (Page # 41)**
- ☐ EXE File

Question # 144: To declare an anonymous method, you just use keyword “_____”.

- ☐ handler
- ☐ event
- ☒ **delegate (Page # 53)**
- ☐ none of the given

Question # 145: Obsoleteattribute causes a_____warning to appear.

- ☒ **compile-time (Page # 47)**
- ☐ run-time
- ☐ anytime
- ☐ none of the given

ObsoleteAttribute causes a compile-time warning to appear. Such things would be difficult to accomplish with normal code.

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Question # 146: All the members of interfaces are implicitly_____.

- ☐ Private
- ☐ Static
- ☒ **Public** (Page # 34)
- ☐ Abstract
- ☐ Requests
- ☒ **Events** (Page # 13)
- ☐ Functions

Question # 147:_____decouple producers and consumers.

- ☐ All of these

Question # 148: Markup extensions are invoked from_____with explicit and consistent syntax.

- ☐ C#
- ☐ HTML
- ☒ **XAML** (Page # 73)
- ☐ None of the given

عقل مند اپنے عیب خود دیکھتا ہے اور بیوقوفوں کے عیب دنیا دیکھتی ہے

Question # 149: The base class will have the _____ functionality of all derived classes.

- ☒ **Common**
- ☐ Specialized
- ☐ Unique
- ☐ Different

Question # 150: There is no order requirement on named parameters.

- ☒ **True** (Page # 49)
- ☐ False

Question # 151: Any class, including the same class that the event is declared in, may register one of its methods with the _____.

- ☐ Delegate
- ☐ Function
- ☐ Class
- ☒ **Event** (Page # 45)

Question # 152: Using XmlDocument, the order is required.

- ☐ True
- ☒ **False** (Page # 55)

Using XmlDocument is easier. No order is required.

تم اچھا کرو زمانہ تم کو برا سمجھے یہ اس سے بہتر ہے کہ تم برا کرو اور زمانہ تم کو اچھا سمجھے

Question # 153: When the data is passed from one place to another in chunks, this data is called _____.

- ☐ Bits
- ☐ Line
- ☐ Byte
- ☐ **Stream**

Question # 154: Overloaded operators must be static and must be declared in the class for which the operator is defined.

- ☐ **True (Page # 51)**
- ☐ False

Question # 155: A method performs an action in a series of statements, called a _____.

- ☐ Code Block
- ☐ Method Block
- ☐ Routine Block
- ☐ **Statement Block** [Click here for more detail](#)

A method performs an action in a series of statements, called a statement block

Question # 156: _____ contacts the service provider or the server.

- ☐ Event-driven
- ☐ **Service Requester** (Page # 13)
- ☐ Both of the above
- ☐ None of the given options

Question # 157: Polymorphism works on the basis that child class should have _____ feature/s of its parent class.

- ☐ Only one
- ☐ No
- ☐ Few
- ☐ **All**

Question # 158: A customer order can be represented as _____.

- ☐ Event
- ☐ Request
- ☐ **Event or Request** Page # 13
- ☐ All of the given

A customer order can be represented as an event or a request:

اپنی مرضی اور اللہ کی مرضی میں فرق کا نام غم ہے

Question # 159: XAML is a declarative programming language for creating and initializing objects.

- ☐ C#
- ☐ **XAML** (Page# 70)
- ☐ HTML
- ☐ All of these

Question # 160: _____ may contain events.

- ☐ Requests
- ☐ Service
- ☐ **Messages** (Page # 13)
- ☐ Applications

Question # 162: _____ reads entire document in memory.

- ☐ **Xmldocuments** (Page # 55)
- ☐ Xmlreader
- ☐ Both of above
- ☐ None of the given

جھوٹ انسان اور ایمان دونوں کا دشمن ہے

Question # 163: The _____ method is used to read the whole file at once.

- ☒ **ReadAllText("test.txt");** [Click here for more detail](#)
- ☐ ReadAll();
- ☐ Read("test.txt");
- ☐ ReadLine();

Question # 164: XML is a stricter version of _____.

- ☐ Java
- ☐ CSS
- ☒ **HTML** (Page # 54)
- ☐ C#

Question # 165: g++ is a command of _____.

- ☐ Dev C++
- ☒ **Unix based system** [Click here for more detail](#)
- ☐ Windows based system
- ☐ None of the given options

g++ compiler commands on a Unix-Based system

Question # 166: Writing higher-level functions that call upon lower-level functions _____ a program.

- ☐ Decode
- ☐ Harder
- ☐ **Simplify**
- ☐ Refactor

Question # 167: To use kbhit() command, you need to include which header file in your program?

- ☐ fstream.h
- ☐ stdio.h
- ☐ iostream.h
- ☐ **conio.h** [click here for more detail](#)

Question # 168: Every _____ is represented by an event-object.

- ☐ Information
- ☐ Entity
- ☐ Object
- ☐ **Event** **page # 10**

Question # 169: Wpf 3.5 released in_____.

- ☐ 2005
- ☐ 2006
- ☐ **2008** [click here for more detail](#)
- ☐ 2009

Question # 170: "Situation" is an event occurrence that requires a (n)_____.

- ☐ **Reaction** **page # 10**
- ☐ Class
- ☐ Object
- ☐ Action

Question # 171: Events can be_____.

- ☐ Specialized
- ☐ **All of the given options** **page # 15**
- ☐ Composed
- ☐ Generalized

عقل مند کہتا ہے میں کچھ نہیں جانتا جبکہ بے وقوف کہتا ہے کہ میں سب کچھ جانتا ہوں

Question # 172: A (n)_____ is a subscription mechanism for events.

- Raw Event
- Event Stream
- Event Channel page # 13
- Event Producer

Question # 173: The default constructor initializes the integers with_____ value.

- Empty
- NULL
- Zero (0)
- One (1)

Question # 174: Which statement is True about interfaces?

- An interface can contain only methods, variables, events, and indexers.
- An interface can contain only variables, properties, events, and indexers.
- An interface can contain only methods, properties, variables, and indexers.
- An interface can contain only methods, properties, events, and indexers. Page # 40

خود کو تمہیں سے بڑھ کر کوئی اچھا مشورہ نہیں دے سکتا

Question # 175: Not implementing some methods of the interface in the class is_____.

- ☐ **An error** page # 40
- ☐ Acceptable
- ☐ A warning
- ☐ An exception

Question # 176:_____ Method is used to move the file from one directory to another.

- ☐ **Move** page # 63
- ☐ Export
- ☐ Import
- ☐ None of given options

Question # 177: Unlike type converters, however, markup extensions are invoked from XAML with_____.

- ☐ Bridge assemblies
- ☐ Wrapper code
- ☐ **Explicit and consistent syntax** page 73
- ☐ None of the given options

Question # 178: An "object" element can have _____ type/s of children.

- ☐ Four
- ☒ **Three** **Page 73**
- ☐ Two
- ☐ One

Question # 179: Which of the following grabs the "OK" button by only knowing its name?

- ☐ Button okButton = (Button>window.GetName("okButton")
- ☐ Button okButton = (Button>window.getElementByName("okButton")
- ☒ **Button okButton = (Button>window.FindName("okButton")** **page # 76**
- ☐ Button okButton = (Button>window.GetButton("okButton")

Question # 180: The only _____ .Net language has an intrinsic understanding of dependency Properties.

- ☐ Vb.net
- ☐ C#
- ☐ J#
- ☒ **Xaml** **page # 83**

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Question # 181: There is/are _____ type(s) of padding in WPF element.

- ☐ One
- ☐ Two
- ☒ **Three** page #91
- ☐ Four

Question # 182: If we require to set components in table (column and row) format, then which panel will be used?

- ☐ StackPanel
- ☒ **Grid** page 104
- ☐ TabPanel
- ☐ DockPanel

Question # 183: What is the default value of "RowSpan" property of "Dockpanel"?

- ☐ 3
- ☐ 2
- ☒ **1** page # 104
- ☐ 0

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Question # 184: What is the default value of "ColumnSpan" property of "Dockpanel"?

- ☐ 2
- ☒ **1 page # 104**
- ☐ 0
- ☐ 3

Question # 185: An "UIElement" receives mouse events only if "IsHitTestVisible" is _____.

- ☐ 0
- ☐ False
- ☒ **Null page # 121**
- ☐ True

Question # 186: A (n) _____ is a set of associated events.

- ☐ Event Consumer
- ☐ Event Producer
- ☒ **Event Stream Page # 14**
- ☐ Event Channel

زندگی میں کامیابی کا یہی راز ہے کہ پریشانیوں سے پریشان مت بنو

Question # 187: Which of the following is not a feature of "C#"?

- ☐ **Operator overloading is not allowed. Page # 17**
- ☐ Multiple Inheritances is not supported but interfaces are supported.
- ☐ Enumeration members are scoped.
- ☐ Global variables or functions are not allowed.

Question # 188: "Console" is a/an _____ class in the "System" namespace.

- ☐ Virtual
- ☐ Input
- ☐ **Static page # 18**
- ☐ Dynamic

Question # 189: Identify the Correct statement?

- ☐ "Struct" can add methods like interfaces and can be called in exactly the same way.
- ☐ "Interfaces" can add methods like classes and can be called in exactly the same way.
- ☐ **"Struct" can add methods like classes and can be called in exactly the same way. Page # 39**
- ☐ "Struct" cannot add methods like classes and cannot call in exactly the same way.

Question # 190: There is/are _____ type/s of parameter/s for attributes.

- ☐ Four (4)
- ☐ **Three (3) page # 36**
- ☐ One (1)
- ☐ Two (2)

Question # 191: XML document is readable by_____.

- ☐ No one
- ☒ **Machine and Human both** **page # 54**
- ☐ Human only
- ☐ Machine only

Question # 192: Compiling XAML involves_____ step(s).

- ☒ **Three** **page 76**
- ☐ Two
- ☐ One
- ☐ Four

Question # 193: One of the key goals of WPF and XAML is the separation of_____.

- ☒ **None of the given options** **page # 70**
- ☐ Events from event handlers
- ☐ Methods from properties
- ☐ Design elements from implementation

Question # 194: One of the ways to create an instance of a class is_____.

☐ **System array** page # 18

- ☐ Factory method
- ☐ Sequential heap
- ☐ XAML compiler

Question # 195: Which "transform" property can help us to flip the element from its center?

- ☐ ScaleY
- ☐ None of given options
- ☐ ScaleX
- ☐ **RenderTransformOrigin** page # 126

Question # 196: By convention "tunneling event" names are prefixed with_____and just come_____the bubbling event occurs.

- ☐ View, after
- ☐ View, before
- ☐ **Preview, before** page # 117
- ☐ Preview, after

Question # 197: Stylus can behave like a _____ but has _____ resolution.

- ☐ Keyboard, lower
- ☐ Mouse, lower
- ☐ **Mouse, higher** page #122
- ☐ Keyboard, higher

Question # 198: Which one is the correct syntax for declaring attribute?

- ☐ **[Obsolete]** page # 48
- ☐ {Obsolete}
- ☐ (Obsolete)
- ☐ *Obsolete

Question # 199: The corresponding type converter class for “Brush” class will be _____.

- ☐ **BrushConverter** page # 149
- ☐ CastBrush
- ☐ BrushCast
- ☐ None of the given options

Question # 200: The elements in a/an _____ are always stored in a contiguous block of memory.

- ☐ Tree
- ☐ **Array**
- ☐ Variable
- ☐ Struct

Question # 201: The _____ statement iterates over each element in an "enumerable" object.

☒ **Foreach** page # 191

- ☐ Dowhile
- ☐ While
- ☐ For

Question # 202: You can handle multiple exception types with multiple _____ clauses.

- ☐ Throw
- ☐ Finally
- ☐ Catch
- ☒ **Try**

Question # 203: A _____ block has access to an "Exception" object that contains information about the error.

- ☒ **Throw** page 46
- ☐ Catch
- ☐ Try
- ☐ Finally

Question # 204: Attributes are declared _____ the class/function.

- **Within**
- After
- Above
- Outside

Question # 205: Whenever an attribute value is enclosed in curly braces "{}", the XAML compiler/parser treats it as a/an _____ rather than a/an _____.

- Markup event, property
- Markup property, Event
- Literal string, Markup extension value
- **Markup extension value, literal string** page # 73

Question # 206: If we want that "Stretch" property of child element takes the available "height or width of parent" and shape of child element doesn't change, then we should write "Stretch = _____".

- 1
- **Fill** page 109
- UniformToFill
- Uniform

Question # 207: Which of the following is Not a routing strategy?

- Tunneling
- **Indirect** **page 117**
- Bubbling
- Direct

Question # 208: We are checking that whether an element is eligible for focus or not, which property will help us in this testing?

- Focus
- IsFocus
- IsFocusable
- **Focusable** **page 121**

Question # 209: A (n)_____ is a component of the structure of an event.

- **Event Attribute** **page 15**
- Event Request
- Event Response
- Event Architecture

Question # 210: In C#, comments are written using_____.

- ☐ # and */ /*
- ☐ // and /* */ **page18**
- ☐ # and /*
- ☐ // and */ /*

Question # 211: C# is most often used with some implementation of the_____.

- ☐ Compact Language Interface
- ☐ Control Language Infrastructure
- ☐ Control Language Interface
- ☐ **Common Language Infrastructure** **page # 18**

Question # 212: Directory is the class of_____.

- ☐ System.Collections.Generic
- ☐ System.Reflection
- ☐ System.Text
- ☐ **System.IO**

Question # 213: In Visual Studio 2012, expression blend is _____ WPF feature.

☐ 80%

☒ 100% Page # 69

☐ 90%

☐ 70%

WPF and expression blend is 100% WPF and is great for designing and prototyping WPF apps.

Question # 214: For which of the following, WPF does not provide any type converter?

☐ Color

☐ Point

☒ None of the given options Page # 72

☐ FontWeight

Question # 215: We have two buttons "b1" and "b2". If we want to place "b1" on "b2" then value of "ZIndex" of "b1" should be _____ the value of "ZIndex" of "b2".

☐ Less than

☐ Greater than

☐ Equal to

☒ No need to give value of ZIndex of b1 page # 99

Question # 216: Routed events are like _____ on top of .Net properties.

- Event properties
- Layer
- Properties

○ **Dependency properties** page # 116

Question # 217: _____ helps apps remain oblivious to the visual tree.

- Routed Events
- **Input Events** page # 116
- Output Events
- Obvious Events

Question # 218: _____ where multiple GUI elements and many sources of events exist.

- **Visual programming** page # 08
- Event properties
- Control Language Interface
- Content property

Question # 219: Event-based programming, also called _____.

- **Event-driven architecture** page # 10
- Event properties
- Layer
- Output Events

Question # 220: Methods are _____ that operate on data.

- **Algorithms** page # 37
- Variable
- Pointer
- Function

Question # 221: When your C# program is compiled, it creates a file called a/an _____, which is normally an executable or DLL library.

- C++
- **Assembly** page # 41
- Text
- BIOS

Question # 222: Attribute parameters can be either _____ parameters or named parameters.

- Function
- Method
- Value
- **Positional** page # 43

Question # 223: Graphical user interfaces and the event-driven model are not applied on which of the following?

- ☐ Web Applications
- ☒ Console Applications
- ☐ Mobile applications
- ☐ Desktop Applications

Question # 224: WPF element in "DockPanel" has property "dock". There is/are _____ possible value(s) of "dock" property.

- ☐ two
- ☐ three
- ☒ four (Page 93)
- ☐ one

Question # 225: In context of XAML child element rules, if the parent supports a content property and the type of the child is compatible with that property, treat the child as its _____.

- ☐ Super class
- ☐ Sub class
- ☒ Value (Page 68)
- ☐ Interface

Question # 226: The _____ user interfaces, enabled by WPF, is getting a lot of attention.

- Loutish
- **Polished** (Page 61)
- Coarse
- Distracted

Question # 227: With the help of WPF, an ugly looking application can be _____ by the designers.

- Rearranged
- Re-created
- **Re-themed** (Page 61)
- Rejected

Question # 228: If we want to rotate an object clockwise about a specified point in a 2-D x-y coordinate system then which transform class will be used?

- **None of given** (Page 87)
- Translate Transform
- Skew Transform
- Scale Transform

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Question # 229: All elements of WPF have following property/properties.

- Width
- None of given options
- **Height and Width**
- Height

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