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1. keyword is used to declare a base class method while performing overriding of base class method.
   A. Overload
   B. Virtual
   C. Extend
   D. Override
2. Choose the correct option among the following indexers which correctly allows to index in same way as an array?
   A. A Class
   B. A function
   C. An interface
   D. A property
3. A class can inherit from_____class/classes in C#.
   A. Three
   B. Single
   C. Two
   D. Multiple
4. Which one of the following is not the feature of C#?
   A. Multiple inheritance
   B. Interface supported
   C. Locals can not shadow global variables
   D. Operator Overloading is allowed
5. Which keyword is used to declare the indexers?
   A. super
   B. base
   C. this
   D. extract
6. The common type system of C# has value types and___types.
   A. Class
   B. Object
   C. Reference
   D. Enum
7. Select the correct statement about the structure in C#?
   A. Its syntax is similar to class
   B. It can implement destructors
   C. It is a reference type
   D. It can implement inheritance
8. Reaction of events are either_____or_____.
   A. Asynchronous, Blocking
   B. Synchronous, Blocking
   C. Blocking, Synchronous

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D. Synchronous, Asynchronous

9. is an example of request and response based application
   A. Web browser
   B. E –Commerce Site
   C. Pressing a button
   D. Swiping of credit card
10. Which of the following is built from request-response?
   A. Event-based Architecture (EBA)
   B. Service-driven Architecture (SDA)
   C. Service-oriented Architecture (SOA)
   D. Event-processing Architecture (EDA)
11. _____ and delegates work hand in hand. (Page-38)
   A. Static member
   B. Event
   C. Post-processor
   D. Pre-processor
12. In C#, when a value type is converted to object type, it is called__.
   A. Polymorphism
   B. Abstraction
   C. Boxing
   D. Data Conversion
13. Which keyword is used for correct implementation of an interface in C#?
   A. Intf
   B. Interface
   C. Int Interface
   D. Interfaces
14. The main method return a non-zero value which indicates the
   A. Exception in program
   B. Termination of program
   C. Error in program
   D. Success of program
15. is an occurrence within a particular system or domain.
   A. Program
   B. Class
   C. Event
   D. Object
16. Select wrong statement about destructor in C#?
   A. Destructor can have modifiers or parameter
   B. Destructor cannot be inherited or overloaded
   C. Destructor work opposite to constructor
   D. Class can have one destructor only
17. The main method returns zero value which indicates the
   A. Successful execution of program
   B. Source of program

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C. Termination of program
D. Exception in program

18. In C#, which of the following keyword is used for including the namespaces in the program?
A. using
B. extend
C. import
D. #

19. When your C# program is compiled, is creates a file called
A. Exe
B. Class
C. Object
D. Assembly

20. Which of the following is an insertion operator in C++?
A. <<
B. >
C. - -
D. &

21. C#___is a class member that is activated whenever the event . it was designed for. Occurs
A. Attributes
B. Arguments
C. Method
D. Event

22. A fraud detection event on banking transaction is an example of___.
A. Linear event
B. Sequential event
C. Predictive event
D. Probabilistic event

23. In C++, which of the following library is include for 'cin' and 'cout' function?
A. #include<fstream.h>
B. #include<fstream>
C. #include<conio.h>
D. #include<iostream>

24. Which of the following doesn't have Graphical User Interface and the Event-Driven Model?
A. Console-Application
B. Web Application
C. Mobile Application
D. Desktop Application

25. A stream in which the events may be of different types is referred to as a **heterogeneous** eventstream. (Page-10)
A. Continuous
B. Homogenous
C. Heterogeneous
D. Mutual

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26. Defining a method in subclass having same name and type signature as a method in its superclass is known as
    A. Method hiding
    B. Method Overloading
    C. Method Binding
    D. Method Overriding
27. A single try block must be followed by which of these?
    A. Finally
    B. Catch
    C. Both Finally and catch
    D. Throw
28. By default the data member of a class are
    A. Protected, public
    B. Public
    C. Private
    D. Private, Public
29. Exception are derived from_____class. (Page-39)
    A. Windows error
    B. Exception error
    C. System exception
    D. Error Exception
30. Which of the following does NOT include in event processing operations?
    A. Terminating Event
    B. Deleting Event
    C. Transforming Event
    D. Reading Event
31. What is the return type of destruction?
    A. Float
    B. No return type
    C. Void
    D. Int
32. At the time an event is fired, the_____method (with that event) will be invoked.
    A. Public
    B. Protected
    C. Registered
    D. Private
33. C# is a___and .NET is a__.
    A. Platform, Language
    B. Package, Language
    C. Language, Package
    D. Language, Platform
34. Which of the following is an entity that introduces event into the system?
    A. Event producer
    B. Event Stream

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C. Event Channel
D. Event Consumer

35. _____ is an entity that receive event from the system?
A. Event producer
B. Event Consumer
C. Raw event
D. Event stream

36. Which of the following is the object-oriented way to handle run time errors?
A. OnError () Method
B. Exception
C. Interface
D. Error Code

37. Why do we use cin.get() in C++ program?
A. It is used to print all values of array
B. It is used to get numeric data
C. It is used to access character array
D. It is used to take input from user

38. Types not defined in any namespace are said to reside in the __namespace.
A. Static
B. Virtual
C. Global
D. Local

Reason: Types not defined in any namespace are said to reside in the global namespace. The global namespace also includes top-level namespaces

39. Arrays in C# are_____object.
A. Logical
B. Arithmetic
C. Reference
D. Value

40. The initial name for C# was_____.
A. COAL
B. COOP
C. COAP
D. COOL

41. Which of the following is declared like a class but have no implementation?
A. Encapsulation
B. Structure
C. Interface
D. Inheritance

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42. Which of the following keyword is used to change data and behavior of a base class by replacinga member of the base class with the new derived member.
    A. Base
    B. Overrides
    C. Overloads
    D. New
43. A stream in which all the events must be of same types is called **Homogenous** event stream.(Page-10)
    A. Continuous
    B. Homogenous
    C. Heterogeneous
    D. Mutual
44. Select the correct statement about an exception>
    A. It occurs during Just-in-time compilation
    B. It occurs at runtime
    C. It occurs during loading of program
    D. It occurs during data binding
45. _____ is not a defense against patents and clean room design?
    A. Independent Invention
    B. Event Invention
    C. Dependent Invention
    D. Clear room design
46. COOL stands for____.
    A. Class Oriented Object Language
    B. Consumer Oriented Object Language
    C. C-like Object Oriented Language
    D. C++-like Oriented Language
47. operator is used to signifies the destructor in C#?
    A. #
    B. =
    C. &
    D. ~
48. What is the return type of destruction?
    A. Int
    B. Float
    C. Void
    D. No return types
49. An Event that is generated as a result of event processing that take place inside an eventprocessing system is called_. (Page-10)

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A. Event Stream
B. Derived Event
C. Raw Event
D. Event Consumer

50. Choose the incorrect statement about delegates in C#?
A. Delegates are value type
B. Delegates are like function pointers in other language
C. Delegates are object oriented
D. Delegates are type safe

51. is the method of copying a design by reverse engineering and then recreating it without infringing any of the copyrights and trade secrets associated with the original design.(Page-12)
A. Clear Room Design
B. Event Room design
C. Clean Room Design
D. Wall Room Design

52. Which of the following statement is TRUE about raw event?
A. It is a subscription mechanism for event
B. It is introduced into an event processing system by an event consumer
C. It is generate as a result of event processing
D. It is introduced into an event processing system by an event producer

53. Which symbol is used to declare the preprocessor directives?
A. *
B. #
C. $
D. ^

54. Which of these keyword is used to manually throw an exception in C#?
A. Try
B. Finally
C. Catch
D. Throw

55. On successful compilation of a java source code _____ is generated.
A. Output
B. Bytecode
C. Hexadecimal code
D. Octal code

56. _____ is the necessary condition to implement delegates.
A. Class Declaration
B. Function overloading
C. Inheritance
D. Runtime Polymorphism

57. Select correct statement about properties of read and write in C#
A. A read only property will only have get accessor
B. A write only property will only have get accessor
C. A property cannot be either read only or write only
D. A property can simultaneously be read or write only

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

```
Static void Main{string[] args}
{
  int i;     for  (i = 0;  ;)
  {
    Console.WriteLine(&amp;quot;Virtual University&amp;quot;);
  }
  Console.ReadLine();
}
```

A. || will print "Virtual University" in continuous loop
**B. Syntax error **
C. Virtual University
D. =p= No output =/p=

59. Choose the wrong statement about structures in C#.Net.
A. Structures can have destructors
B. Structures can implement an interface but they cannot inherit from another structure
C. Structure members cannot be declared as protected
D. A structure cannot be empty

60. Which of the following keyword is used to monitor exceptions?
A. Catch
B. Finally
C. Try
D. Throw

61. A method performs an action in a series of statements, called a _____.
A. Code Block
B. Method Block
C. Routine Block
D. Statement Block

62. If we run the program from within Visual Studio, the console window disappears quickly so we can use _____ to keep screen from going away.
A. Console.ReadLine()
B. Console.WriteLine()
C. Console.Title
D. Console.Clear

63. _____ events may or may not relate to an actual occurrence.
A. Observed Events
B. Deducted Events
C. Probabilistic Events
D. None of the above

64. Clean room design is useful as a defense against _____.
A. Copyright
B. Trade secret infringement
C. Copyright and trade secret infringement
D. None of the given options

65. Which of these methods of the class String is used to obtain length of string object.
A. Lengthof()
B. Sizeof()

C. Get()

D. Length()

66. If math class had added property with get and set accessors. Then which of the following statements will work correctly?

A. math.add = 40;

B. math m = new math();
m.add = 50;

C. Console.WriteLine(math.add);

D. System.out.Println("math add")

67. _____ language is supported by Microsoft.Net platform.

A. C#

B. C

C. Php

D. Java

68. The _____ in the namespace indicate a hierarchy of nested namespaces.

A. Semicolon

B. Brackets

C. Arrows

D. Dots

69. which keyword is used to define the macros in c++?

A. macro

B. #define

C. #macro

D. Define

70. In C#, when an object type is converted to a value type, it is called _____

A. Unboxing

B. Data Conversion

C. Abstraction

D. Polymorphism

71. The _____ pointer in methods refers to the object on which the method is called.

A. Int

B. String

C. Out

D. This

72. In C#, all binary operators are _____

A. Right-associative

B. Top-associative

C. Center-associative

D. Left-associative

73. Clean room design is also called_____.

A. Clear Room Design

B. Wall Technique Design

C. Chinese Wall Technique

D. French Wall Technique

74. To perform I/O operations, we must use _____ header file.

A. <conio>

B. <fstream>

C. <ifstream>

D. <ofstream>

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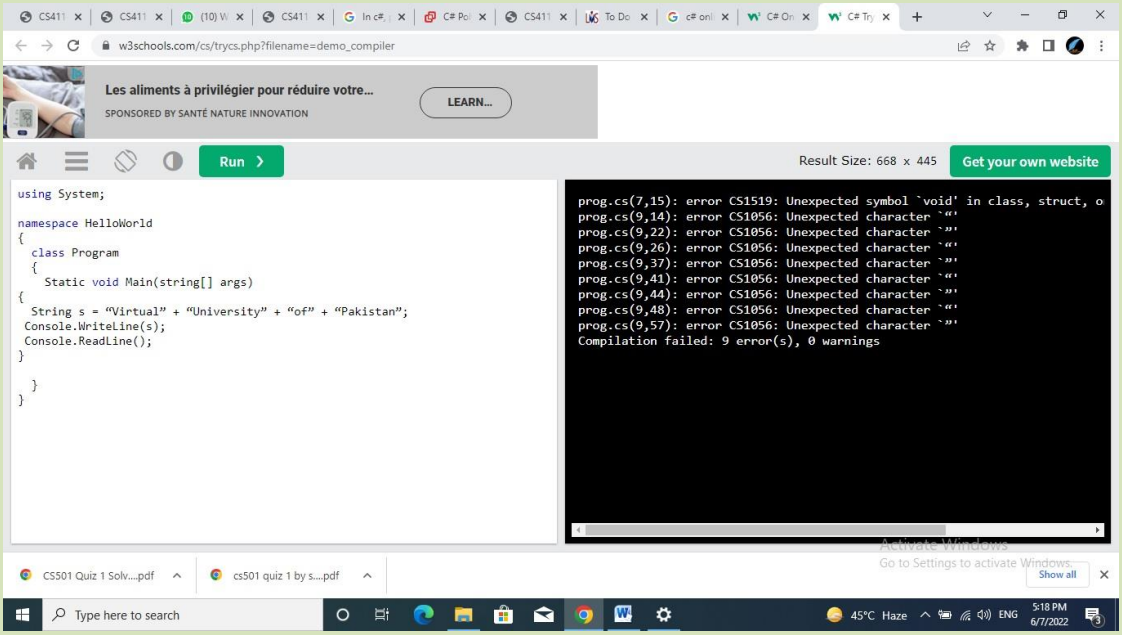
75. Which reference modifier is used to define reference variable?
    A. #
    B. def
    C. &
    D. ref
76. Waiting for a single event is _____operation.
    A. Unavoidable
    B. Waste
    C. Idle
    D. Blocking
77. In System.Console ,"Console" is a _____ which enables us to do console Input and Output.
    A. Namespace
    B. Structure
    C. Class
    D. Library
78. In Event-Driven Architecture (EDA). _____ sends event to _____
    A. Event Consumer, Event Producer
    B. Event Producer, Event Consumer
    C. Event Handler, Event Producer
    D. Event Generator, Event Producer
79. In C++ _____ function is used to check if this stream has raised any error or not
    A. eof()
    B. Peek()
    C. Fstream
    D. Good()
80. In C++ , _____ function is used to return the next character in the input sequence, without extracting it.
    A. Putback()
    B. Peek()
    C. Fstream
    D. Good()
81. which of these keywords is not a part of exception handling?
    A. Thrown
    B. Finally
    C. Try
    D. Catch
82. which of the following access specifiers can be used for an interface in C#
    A. Public
    B. Protected
    C. Internal
    D. Private
83. Indexers are similar to properties, but are accessed via a/an _____ rather than a property name.
    A. Index Argument
    B. Reference
    C. Pointer
    D. Integer Argument

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84. All the members of interfaces are implicitly_____.
    A. Private
    B. Static
    C. Public
    D. Abstract
85. In c#, polymorphism is achieved through _____
    A. Poly programing
    B. Encapsulation
    C. Method Overloading
    D. Data binding
86. Which of the following events may or may not relate to an actual occurrence?
    A. Probabilistic Events
    B. Actual Events
    C. Real Events
    D. Expected Events
87. _____ operations are completed before the next operation can be started.
    A. Asynchronous
    B. Synchronous
    C. Both of the above
    D. None of the given option
88. Choose the correct Output for the following C# code:

```
Static void Main(string[] args)
{
 String s = “Virtual” + “University” + “of” + “Pakistan”;
Console.WriteLine(s);
Console.ReadLine();
}
```

    A. VirtualUniversityofPakistan
    B. Compile time error
    C. Virtual University of Pakistan
    D. Run time error



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89. The base class will have the _____ functionality of all derived classes.
    A. Different
    B. Common
    C. Specialized
    D. Unique
90. Events are based on the principle of _____.
    A. Request
    B. Response
    C. Coupling
    D. Decoupling