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COLLEGE OF SCIENCE AND TECHNOLOGY
Affiliated to University of Mumbai**

Question Bank

Class: S.Y.B. Sc.CS

Semester: IV

Subject: .Net Technologies

1. CLR full form is _____.
 - a) Java Virtual Machine
 - b) Common Language Runtime
 - c) Common Type System
 - d) Common Language Specification
2. All C# applications begin execution by calling the _____ method.
 - a) Class()
 - b) Main()
 - c) main()
 - d) Namespace()
3. A _____ is an identifier that denotes a storage location.
 - a) Constant
 - b) Reference type
 - c) Variable
 - d) Object
4. An _____ is a symbol that tells the computer to perform certain mathematical or logical manipulations.
 - a) Operator

- b) Expression
- c) Condition
- d) Logic

5. An ____ is a group of contiguous or related data items that share a common name.

- a) Operator
- b) Integer
- c) Exponential
- d) Array

6. _____ variables are visible only in the block they are declared.

- a) System
- b) Global
- c) Local
- d) Console

7. The methods that have the same name, but different parameter lists and different definitions is called_____.

- a) Method Overloading
- b) Method Overriding
- c) Method Overwriting
- d) Method Overreading

8. In Microsoft Visual Studio, _____ technology and a programming language such as C# is used to create a Web based application.

- a) JAVA
- b) J#
- c) VB.NET
- d) ASP.NET

9. C# does not support.....

- a) abstraction

- b) polymorphism
- c) multiple inheritance
- d) inheritance

10. Which of the following jobs are NOT performed by Garbage Collector?

- 1.) Freeing memory on the stack.
- 2.) Avoiding memory leaks.
- 3.) Freeing memory occupied by unreferenced objects.
- 4.) Closing unclosed database collections.
- 5.) Closing unclosed files.

- a) 1, 2, 3
- b) 1, 4, 5
- c) 3, 5
- d) 3, 4

11. Which of the following is/are not types of arrays in C#?

- a) Single-Dimensional
- b) Multidimensional
- c) Jazzed arrays
- d) Jagged arrays

12. Which file contains configuration data for each unique URL resource used in project?

- a) web.config
- b) global.asax
- c) webapplication.vsdisco
- d) assemblyinfo.cs

13. Which of the following is not infinite loop?

- a) `for(;'0';)`

- b) for(;'0';)
- c) for(;'1';)
- d) for(;'1';)

14. Which of the following constitutes the .NET Framework?

- 1.) ASP.NET Applications
 - 2.) CLR
 - 3.) Framework Class Library
 - 4.) WinForm Applications
 - 5.) Windows Services
- a) 2, 5
 - b) 2, 1
 - c) 2, 3
 - d) 3, 4

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

- a) Class Loader
- b) Garbage Collector
- c) CTS
- d) CLR

16. A Constructor.....

- a) is used to create objects
- b) must have the same name as the class it is declared within
- c) constructors are never called explicitly
- d) maybe overloaded

17. A delegate in C# defines.....

- a) a Indian Government representative
- b) a class that encapsulates methods

- c) a means of passing arrays into methods
- d) a substitute for an inherited method

18. Which of the following converts a type to a 16-bit integer in C#?

- a).ToDecimal()
- b).ToDouble()
- c).ToInt16()
- d).ToInt32()

19. Which of the following method copies the reference to the memory location of an argument into the formal parameter?

- a) Value parameters
- b) Reference parameters
- c) Output parameters
- d) Input parameters

20. How many web.config files that can be there an ASP.NET application?

- a) One
- b) Two
- c) Three
- d) Four

21. Boxing in .Net allows the user to convert?

- a) a integer type to double
- b) a reference type to a value type
- c) a value type to a reference type
- d) a double type to integer

22. C# special characters that you can append to literal value of Decimal?

- a) D
- b) L
- c) M

d) F

23. What Is DLL?

- a) Dynamic-link language
- b) Direct link language
- c) Dynamic-link library
- d) Direct link library

24. What Is CTS?

- a) Common type specification
- b) Common type-safe
- c) Compiler type structure
- d) Common type system

25. .NET Framework Is An Internal _____ Component That Supports The Execution Of Applications Created By Using Various Programming Languages.

- a) Internet
- b) Windows
- c) Hardware
- d) language

26. Which Of The Following Namespace Provides The Classes That Allow You To Debug Your Application Step By Step?

- a) System
- b) System .Diagnostics
- c) System.Object
- d) System.Security

27. Which is the String method used to compare two strings with each other?

- a) Compare To()
- b) Compare()
- c) Copy()
- d) ConCat()

28. Which of the given modifiers can be used to prevent Method overriding?

- a) static
- b) Constant
- c) Sealed
- d) Final

29. Which keyword is used to refer base class constructor to subclass constructor?

- a) This
- b) Static
- c) Base
- d) Extend

30. Which of the following modifiers is used when an abstract method is redefined by a derived class?

- a) Overloads
- b) Override
- c) Base
- d) Virtual

31. Which among the following does not belong to the C#.NET namespace?

- a) class
- b) struct
- c) enum
- d) data

32. Which among the following is a .NET namespace?

- a) System.Web
- b) System.Process
- c) System.Drawing2D
- d) System.Drawing3D

33. Which of the following is not a namespace in the .NET Framework Class Library?

- a) System.Process
- b) System.Security
- c) System.Threading
- d) System.xml

34. Which of these operators must be used to inherit a class?

- a) :
- b) &
- c) ::
- d) Extends

35. If no access modifier for a class is specified, then class accessibility is defined as?

- a) public
- b) protected
- c) private
- d) internal

36. Default Type of number without decimal is?

- a) Long int
- b) Unsigned Long
- c) int
- d) Unsigned int

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

```
static void Main(string[] args)
{
    float a = 10.553f;
    long b = 12L;
    int c;
```

```
c = Convert.ToInt32(a + b);
```

```
Console.WriteLine(c);
```

```
}
```

- a) 23.453
- b) 22
- c) 23
- d) 22.453

38. Correct way to assign values to variable 'c' when int a=12, float b=3.5, int c;

- a) `c = a + b;`
- b) `c = a + int(float(b));`
- c) `c = a + convert.ToInt32(b);`
- d) `c = int(a + b);`

39. Which among the following is NOT a logical or relational operator?

- a) `!=`
- b) `==`
- c) `||`
- d) `=`

40. Relational operators cannot be used on _____

- a) structure
- b) long
- c) strings
- d) float

41. Which among the following is a conditional operator?

- a) `?:?`
- b) `?;`
- c) `?:`
- d) `??`

42. The correct way of incrementing the operators are:

- a) ++ a ++
- b) b ++ 1
- c) c += 1
- d) d =+ 1

43. Which reference modifier is used to define reference variable?

- a) &
- b) ref
- c) #
- d) \$

44. The operator used to access member function of a class?

- a) :
- b) ::
- c) .
- d) #

45. “A mechanism that binds together code and data in manipulates, and keeps both safe from outside interference and misuse. In short it isolates a particular code and data from all other codes and data. A well-defined interface controls access to that particular code and data.”

- a) Abstraction
- b) Polymorphism
- c) Inheritance
- d) Encapsulation

46. Correct way of declaration of object of the following class is?

class name

- a) name n = new name();
- b) n = name();

- c) name n = name();
- d) n = new name();

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

```
static void Main(string[] args)
{
    int i = 1, j = 5;

    do
    {
        Console.WriteLine(i = i++ * j);
    }

    while (i <= 10);

    Console.ReadLine();
}
```

- a) 5 10 15 20 25 30 35 40 45 50
- b) 5 25
- c) 5 11 16 21 26 31 36 41 46 51
- d) 5 30

48. Which of these methods are used to read single character from the console?

- a) get()
- b) getline()
- c) read()
- d) readLine()

49. Which of these method used to read strings from the console?

- a) get()
- b) getline()

- c) read()
- d) readLine()

50. Which of these method/methods are used to read block or array of bytes from the file?

- a) Read()
- b) ReadByte()
- c) ReadLine()
- d) Readkey()

Unit 2 MCQ's

1. Which programming model should you implement if you want to separate your server-side code from your client-side layout code in a Web page?

- a) Single-file model
- b) Code-behind model
- c) Inline model
- d) Client-server model

2. Which of the following is NOT an ASP.NET page event?

- a) Init
- b) Load
- c) Import
- d) PreInit

3. To implement a specified .NET Framework interface which directive is used?

- a) @Register
- b) @Control
- c) @Reference
- d) @Implements

4. What is the name of the Page object's property that determines if a Web page is being requested without data being submitted to server?

- a) IsCallback
- b) IsReusable
- c) IsValid
- d) IsPostBack

5. Choose the form in which Postback occur.

- a) HTMLForms
- b) Webforms
- c) Winforms
- d) C#forms

6. Web.config file is used...

- a) Configures the time that the server-side code behind module is called
- b) To store the global information and variable definitions for the application
- c) To configure the web server
- d) To configure the web browser

7. Which is the first event triggers in an aspx page ?

- a) Page_Init()
- b) Page_Load()
- c) Page_click()
- d) Page_start()

8. File extension used for ASP.NET web form files.

- a) .web
- b) .asp
- c) .aspx
- d) .ascx

9. An alternative way of displaying text on web page using.

- a) asp:label
- b) asp:listitem
- c) asp:button
- d) asp:listbox

10. Which of the following control is used to validate that two fields are equal?

- a) RegularExpressionValidator
- b) CompareValidator
- c) equals() method
- d) RequiredFieldValidator

11. What namespace does the Web page belong in the .NET Framework class hierarchy?

- a) System.web.UI.Page
- b) System.Windows.Page
- c) System.Web.page
- d) System.Web.Text

12. How do you register a user control?

- a) Add Tag prefix, Tag name
- b) Add Source, Tag prefix
- c) Add Src, Tagprefix, Tagname

- d) Add File, Tag Tag name
13. Attribute must be set on a validator control for the validation to work.
- a) ControlToValidate
 - b) ControlToBind
 - c) ValidateControl
 - d) Validate
14. Select the data type which is NOT supported by range validator.
- a) Integer
 - b) Double
 - c) Character
 - d) Date
15. Select the validator used for email.
- a) Range Validator
 - b) Required field Validator
 - c) Regular expression Validator
 - d) Compare Validator
16. Which attribute is necessary for HTML control to work as a HTML server control?
- a) runat="server"
 - b) runat="web-server"
 - c) ID="server"
 - d) ID="web-server"

17. If we want to add image advertisement using asp.net which of the following web control will you use?

- a) Link Button
- b) AdRotator
- c) Grid View
- d) Layout

a) 18. Which of the following is NOT the property of TextBox in .Net?

- a. Text
- b. Size
- c. SelectedIndex
- d. Font

19. Which of the following is NOT an Advertisements file element for Adrotator?

- a) ImageUrl
- b) PageUrl
- c) NavigateUrl
- d) Impressions

20. Which of the following is NOT a Graphics Class Object?

- a) Brush
- b) Canvas
- c) Font
- d) Pen

21. Which of the following is NOT an Attributes of Web.sitemap file?

- a) url
- b) title
- c) description
- d) path

22. Which of the following is NOT a property in Site Navigation API?

- a) LastNode
- b) CurrentNode
- c) RootNode
- d) ParentNode

23. In Microsoft Visual Studio, _____ technology and a programming language such as C# is used to create a Web based application.

- a) JAVA
- b) J#
- c) VB.NET
- d) ASP.NET

24. What is the extension of a web user control file ?

- a) .Asmx
- b) .Ascx
- c) .Aspx
- d) .Cs

25. The number of forms that can be added to a aspx page is

- a) 2
- b) 3
- c) 1
- d) More than 3

26. In ASP.NET application DLL files are stored in which folder?

- a) App_Code
- b) App_Data

- c) Bin
- d) App_LocalResources

27. ASP.NET tags always begin with the prefix_____.

- a) input type
- b) <a>
- c) asp:
- d) <div>

28. _____ property displays a text message when the user hovers the mouse above the control.

- a) ToolTip
- b) AccessKey
- c) Controls
- d) Font

29. _____ control is a server-side equivalent of the (unordered list) and (ordered list) elements.

- a) ListBox
- b) DropDownList
- c) BulletedList
- d) CheckBoxList

30. _____ property indicates whether a list box allows single selection or multiple selections.

- a) SelectedIndex
- b) SelectedValue
- c) SelectionMode
- d) Items

31. Which of the following Web control provide CheckedChanged event?

- a) Button

- b) RadioButton
- c) TextBox
- d) ListBox

32. Which of the following object is not an ASP component?

- a) LinkCounter
- b) Counter
- c) AdRotator
- d) File Access

33. Why is Global.asax is used?

- a) Declare Global variables
- b) Implement application and session level events
- c) No use
- d) Declare variables

34. Which attribute is necessary for HTML control to work as a HTML server control?

- a) `runat="server"`
- b) `runat="web-server"`
- c) `ID="server"`
- d) `ID="web-server"`

35. If we want to add graphics using asp.net which of the following web control will you use?

- a) Link Button
- b) AdRotator
- c) Grid View
- d) Layout

36. Some control, by default, does not cause an automaticPostBack, i.e TextChanged event of TextBox. Which property will you set for automatic postback of these types of controls?

- a) `isPostBack="false"`
- b) `isPostBack="true"`

- c) `PostBack="true"`
- d) `AutoPostBack="true"`

37. How do you create a TextBox for retrieving a password from a user?

- a) Set `TextMode` property of the TextBox control to `Secret`.
- b) Set `Mode` property of the TextBox control to `Password`.
- c) Set `Text` property of the TextBox control to `Password`.
- d) Set `TextMode` property of the TextBox control to `Password`.

38. What is the file extension of web service in ASP.NET?

- a) `.ascx`
- b) `.asmx`
- c) `.aspx`
- d) `.docx`

39. Which protocol is used for requesting a web page in ASP.NET from the Web Server?

- a) HTTP
- b) TCP
- c) SMTP
- d) FTP

40. Which is the mandatory property for all validation controls?

- a) `ControlToValidate`
- b) `Message`
- c) `EnableClientScript`
- d) `EnableServerScript`

41. Lots of websites uses ____ control to display the advertisements on the web page.

- a) AdRotator
- b) AdAdvertisement
- c) AdMixed
- d) AdPromptor

42. Calendar control supports ____property that allows you to select a single day, week, or entire month

- a) Current Mode
- b) SelectionMode
- c) Select Mode
- d) ViewDate Mode

43. The ____ control displays a multi level navigation menu

- a) <asp:TreeView>
- b) <asp:Menu>
- c) <asp:SiteMapPath>
- d) <asp:SiteMapDataSource>

44. Rules for creating a sitemap file:

- a) The XML file must not contain a <siteMap> tag surrounding the content
- b) The <siteMap> tag can have multiple <siteMapNode> child node
- c) Each <siteMapNode> can have several child nodes (web pages)
- d) Each <siteMapNode> has attributes defining Page navigation

45. Which Name space is used to create chart using ASP.Net MVC?

- a) using System.Web.Mvc
- b) using System.Web.Helpers
- c) using System.Web.Chart
- d) using System.Chart

46. The method applied to change the styles of the elements in a ASP.NET webpage is called

- a) master page

- b) child page
- c) cascading-style sheets
- d) UTF-8

47. Which of the following web server control used as container for other server controls in a ASP.NET webpage?

- a) Placeholder
- b) Panel
- c) Table
- d) ImageMap

48. Which webserver is developed by Microsoft?

- a) Apache Tomcat
- b) Caudium
- c) Internet Information Services (IIS)
- d) WEBrick

49. Which protocol is used to transfer files from localhost to remote host?

- a) HTTP
- b) FTP
- c) TCP
- d) UDP

50. Which command is used to specify settings of an .aspx file?

- a) Class
- b) Directives
- c) Events
- d) Validation

1. Which of these keywords is not a part of exception handling?
 - a) try
 - b) finally
 - c) thrown
 - d) catch

2. Which of these keywords are used for the block to handle the exceptions generated by try block?
 - a) try
 - b) catch
 - c) throw
 - d) check

3. Which among the following is NOT an exception?
 - a) Stack Overflow
 - b) Arithmetic Overflow or underflow
 - c) Incorrect Arithmetic Expression
 - d) Devide by Zero

4. Select the correct statement about an Exception?
 - a) It occurs during loading of program
 - b) It occurs during Just-In-Time compilation
 - c) It occurs at run time
 - d) Its always the mistake of User

5. Which of the following keyword can be used to rethrow an exception in C#:
 - a) return
 - b) throw
 - c) re-throw
 - d) create

6. _____ uses a hidden field that ASP.NET automatically inserts in the final, rendered HTML of a web page.
 - a) Caption
 - b) View state
 - c) Button state
 - d) Application State

7. The _____ is a dictionary collection, which means every item is stored in a separate “slot” using a unique string name.

- a) StateBag
- b) Variable
- c) Datatype
- d) View

8. ASP.NET uses a _____ to make sure your view-state information can't be altered without your knowledge.

- a) view code
- b) app code
- c) password
- d) hash code

9. A _____ postback is a technique that extends the postback mechanism.

- a) pageing
- b) Cookies
- c) URL encoding
- d) cross-page

10. The _____ is the portion of the URL after the question mark.

- a) string
- b) URL encoding
- c) query string
- d) app string

11. If your view state contains some information you want to keep secret, you can _____ viewstate encryption.

- a) enable
- b) mute
- c) view
- d) disable

12. _____ are small files that are created in the web browser's memory or on the client's hard drive.

- a) Cookies
- b) session
- c) variable
- d) string

13. _____ allows you to store any type of data in memory on the server.

- a) Pageing
- b) Cookies
- c) Session-state
- d) StateBag

14 _____ Provides a string with the unique session identifier for the current client.

- a) Application
- b) Cookies
- c) Sessionit
- d) SessionID

15. _____ removes all the session items but doesn't change the current session identifier.

- a) undo()
- b) Commit()
- c) Cancel()
- d) Clear()

16. You configure session state through the _____ file for your current application

- a) web.config
- b) global
- c) aspx
- d) aspx.cs

17. The _____ setting specifies the number of minutes that ASP.NET will wait, without receiving a request, before it abandons the session.

- a) id
- b) del
- c) timeout
- d) wait

18. The _____ control navigates to the page specified in its NavigateUrl property.

- a) HyperLink
- b) button
- c) label
- d) textbox

19. _____ allows you to store global objects that can be accessed by any client.

- a. Object
- b. Access
- c. Stateless
- d. Application state

20. _____ provides the number of items in the current session collection

- a) Item
- b) ID
- c) Count
- d) Number

21. URL stands for _____.

- a) Union Resource Loader
- b) Uniform Resource Locator
- c) Universal Resource Locator
- d) Uniform Resource Loader

22 _____ is work transparently, without the user being aware that information needs to be stored.

- a) Session
- b) Data
- c) View
- d) Cookies

23 . Which control is required inside a content page to reference ContentPlaceHolder control inside the master page?

- a) Content control on a content page.
- b) ContentPlaceHolder on a content page.
- c) Placeholder control is required on content page.
- d) Placeholder control on web page.

24. When you add a theme folder, what will be the name of that folder ?
- a) Theme
 - b) App_Code
 - c) App_Theme
 - d) App_Themes
25. _____ property cannot be assigned to ASP.net controls inside the SkinFile.skin
- a) ControlID
 - b) SkinID
 - c) ContentID
 - d) PanelID
26. _____ must be assigned to the ASP.net controls inside the SkinFile.skin
- a) ControlID
 - b) SkinID
 - c) ContentID
 - d) PanelID
27. If A Developer Of ASP.NET Defines Style Information In A Common Location. Then That Location Is Called As
- a) Master Page
 - b) Theme
 - c) Customization
 - d) Design
28. The method applied to change the styles of the elements in a ASP.NET webpage is called _____
- a) master page
 - b) child page
 - c) css
 - d) UTF-8
29. Using which type of stylesheet we can change the style of an element in the entire website?
- a) Internal Stylesheet

- b) External Stylesheet
- c) Inline Stylesheet
- d) Embedded Stylesheet

30. Which of these keywords must be used to monitor exceptions?

- a) try
- b) finally
- c) throw
- d) catch

31. Which object data is included in bookmarks and e-mailed URLs?

- a) ViewState
- b) cookies
- c) Query strings
- d) ApplicationState

32. Which Session Mode Serialization is not required to store the data?

- a) Off
- b) InProc
- c) StateServer
- d) SQLServer

33. Which object in ASP.NET provides a global storage mechanism for state data that needs to be accessible to all pages in a given Web application?

- a) Session
- b) Application
- c) ViewState
- d) ClientState

34. When a User's Session times out which event should you respond to?

- a) Application_Start
- b) Session_End
- c) Session_Start
- d) Application_End

35. From the following which is not a valid state management object?

- a) Querystate
- b) Cookies
- c) Application state
- d) Hidden form fields

36. What ASP.NET object encapsulates the state of the client and the browser?

- a) Application Object

- b) Session Object
- c) Response Object
- d) Request Object

37. What is full form of CSS?

- a) Crystal Style Sheet
- b) Cascading Spread Sheet
- c) Cascading Style Sheet
- d) Cascading Support Sheet

38. What is sequence for creating CSS in Visual Studio ?

Step 1: From Toolbox , drag necessary controls

Step 2 : Create a ASP.net Web Site

Step 3 : Change to Design view and open Default page

Step 4 : Set the properties

- a) Step 1->Step 2->Step 3 ->Step 4
- b) Step 2->Step 3->Step 4 ->Step 1
- c) Step 4->Step 2->Step 1 ->Step 3
- d) Step 2->Step 3->Step 1 ->Step 4

39. What is the advantage of Class Selector ?

- a) To apply setting once per page
- b) To group multiple selectors
- c) To give same formatting to all HTML elements
- d) To use global setting

40. Which type of page gives standard behaviour for all pages in application?

- a) Master Page
- b) Layout page
- c) Web page
- d) Default Page

41. What are the things automatically attached with Content Page?

- a) Page Header
- b) Page Footer
- c) Content Place Holder
- d) Reference list

42. Which is the way to bind Master Page to Existing ASP.Net page?

- a) To Add Content Place Holder

- b) To Add @Page directive
- c) To create Master directive
- d) To provide intersperse content

43. _____ uses a hidden field that ASP.NET automatically inserts in the final, rendered HTML of a web page.

- a) Caption
- b) View state
- c) Button state
- d) Application State

44. ASP.NET uses a _____ to make sure your view-state information can't be altered without your knowledge.

- a) view code
- b) app code
- c) password
- d) hash code

45. _____ removes all the session items but doesn't change the current session identifier.

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- c) Cancel()
- d) Clear()

46. _____ allows you to store global objects that can be accessed by any client.

- a) Object
- b) Access
- c) Stateless
- d) Application state

47. Which of the following is not server side state management technique available in ASP.NET?

- a) Profile Properties
- b) Application State
- c) Session State
- d) Control State

48. Which object data is included in bookmarks and e-mailed URLs?

- a) View State
- b) Session State
- c) Query String
- d) Cookies

49. In Query String, multiple query strings can be specified in the URL by separating them

- a) ,
- b) ;
- c) ?
- d) &

50. _____ is a small piece of information stored on the client machine which was sent by web server.

- a) Hidden Field
- b) Application State
- c) Session
- d) Cookies