**.NET Test Paper 25-Marks**

Choose the correct option. There can be multiple options for some of the questions below.

1) Abstract class

I. A class that cannot be instantiated.

II. A class that must be inherited.

III. A class in which all methods are abstract.

IV. A class in which all methods are public.

a) Only II

b) I and II

c) I, II, III

d) All

2) If several controls on a form bind to the same data source, they share the same \_\_\_\_\_\_class.

a) BindingContext

b) CurrencyManager

c) Dataset

d) DataReader

3) Which of the following statements are true?

a) A running thread goes in waiting state when it waits for another thread to perform the task. It resumes its running state when specific time interval is complete.

b) Thread synchronization can be done by putting locks.

c) A deadlock condition occurs when each of the two threads tries to lock a resource that the other has already locked.

d) Monitor class provides functionality to perform atomic operations for variables that are shared by multiple threads.

4) If a method is marked as virtual in a class, then

a) Classes inheriting from it must override the method.

b) Classes inheriting from it within the same assembly can override the method.

c) Classes inheriting from it within or outside the assembly override the method.

d) The method cannot be inherited.

5) You develop a Windows-based application by using Visual Studio .NET. The application includes a new student entry form that contains multiple textboxes. One of the textbox accepts age of the student. You want to accept only digits in this textbox. Which of the following events will you choose to write your code in?

a) MouseOver

b) KeyPress

c) GetFocus

d) Both MouseOver, KeyPress

6) Which of the following are value types?

a) Structures

b) interfaces

c) integers

d) enumerated types

7) Which of the following are .NET providers?

i. Connection

ii. DataSet

iii. Command

iv. DataReader

v. DataTable

a) i , iii , iv

b) ii , v

c) ii , iii ,iv

d) all are .NET providers

8) You develop a Windows-based application. You plan to use ADO.NET to call a Microsoft SQL Server stored procedure named Emp\_ProcEmployeeData. This procedure accepts a parameter for querying the database by an employee's family name. You need to add code to your application to set up the parameter for use with the stored procedure. Which three lines of code should you add?

a) SqlParameterprm = new SqlParameter( "Name", SqlDbType.VarChar);

b) SqlParameterprm = new SqlParameter( "@FamilyName", SqlDbType.VarChar);

c) SqlParameterprm = new SqlParameter( "@FamilyName", SqlDbType.Char);

d) SqlParameterprm = new SqlParameter( "@FamilyName", SqlType.Char);

9) The \_\_\_\_\_\_\_\_\_\_ serialization is used to serialize object completely.

a) XML Serialization

b) Binary Serialization

c) BinaryFormatter

d) BinarySerializer

10) The \_\_\_\_\_\_ class is central to reflection.

a) Reflector

b) System.Type

c) System.Reflection

d) 2 and 3

11) If a method is marked as protected internal who can access it?

a) Classes that are both in the same assembly and derived from the declaring class.

b) Only methods those are in the same class as the method in question.

c) Classes within the same assembly and classes derived from the class that contains this member only within assembly.

d) Classes within the same assembly and classes derived from the class that contains this member within assembly or outside the assembly.

12) What is correct about Data Reader object -

a) DataReader is a connected data-access object

b) DataReader provides read-only , forward-only data

c) DataReader can be used to store data at client side

d) None of the above

13) You develop a Windows-based application. Its users will view and edit employee attendance data. The application uses a DataSet object named customDataSet to maintain the data while users are working with it. After a user edits data, business rule validation must be performed by a middle-tier component named mycomponent. You must ensure that your application sends only edited data rows from customDataSet to mycomponent. Which code segment should you use?

a) Dim changeDataSet As New DataSet

If customDataSet.HasChanges then

myComponent.Validate(changeDataSet)

b) Dim changeDataSet As New DataSet

If customDataSet.HasChanges then myComponent.Validate(customDataSet)

c) Dim changeDataSet As DataSet = customDataSet.GetChanges()

myComponent.Validate(changeDataSet)

d) Dim changeDataSet As DataSet = customDataSet.GetChanges ()

myComponent.Validate(customDataSet)

14) You are creating an ASP.NET page that enables users to select a country and view information on tourist attractions in that country. Users select a country from a list box named CK countryList. The list box displays country names. The list box also contains hidden country codes. Your code retrieves a cached DataTable object that contains tourist attraction description and a numeric country code named CountryID. The DataTable object is named attractionsTable. You want to extract an array of DataRow objects from the DataTable object. You want to include tourist attractions for only the selected county.

Which code segment should you use?

a) Dim result As DataRow() = attractionsTable.Select( "CountryID = " & CK

countryList.SelectedItem.Text)

a) Dim result As DataRow() = attractionsTable.Select( "CountryID = " & CK

countryList.SelectedItem.Value)

b) Dim result As DataRow = attractionsTable.Rows.Find( "CountryID = " & CK

countryList.SelectedItem.Value)

c) Dim result As DataRow = attractionsTable.Rows.Find(KcountryList.SelectedItem.Value)

15) You are creating an ASP.NET application for CertKing 's Internet Web site. You want to create a toolbar that will be displayed at the top of each page in the Web site. The toolbar will contain only static HTML code. The toolbar will be used in only your application. You plan to create the toolbar as a reusable component for your application. You need to create the toolbar as quickly as possible. What should you do?

a) Create a new Web Control Library project.Create the toolbar within a Web custom

control.

b) Add a new Web user control to your ASP.NET project. Create the toolbar within

the Web user control.

c) Add a new Web Form to your ASP.NET project. Use HTML server controls to

Design the toolbar within the Web Form and save the Web Form with an .ascx extension.

d) Add a new component class to your ASP.NET project. Use HTML server controls to design the toolbar within the designer of the component class.

16) Consider a scenario where a user needs to validate an empty input in a TextBox control using a RequiredFieldValidator. This control ensures that if the user enters “NA” or does not enter anything, the validation must fail. Which property of the RequiredFieldValidator will serve the purpose?

a) Text

b) InitialValue

c) DisplayMessage

d) ErrorMessage

17) Which ISAPI extnesion is used to handle ASP.NET specific extensions?

a) asp.net.dll

b) aspnet\_isapi.dll

c) aspx\_isapi.dll

d) None of the above

18) Your ASP.NET application needs to access data from an Access database named “cdac.mdb” which is on the D:\ drive of your system. Which data source control can be used for the same? (Choose Two)

a) XMLDataSource

b) ObjectDataSource

c) SiteMapDataSource d) AccessDataSource

e) SQLDataSource

19) Consider a scenario where the user is provided with the list of all the Music categories on the page named AlbumCategories.aspx. The user may or may choose single or mutiple categories and then submits the page. Once the page is submitted , a page named Albums.aspx with the list of albums that match with the chosen category is displayed. Note that this data should be available as long as the session is alive. Which technique should be used by developer to code the page to pass the data between the pages for the session duration?

a) Use ViewState

b) Use cookies

c) Use Session object

d) Use Application object

20) Which of the following files can be used to handle ASP.NET application-level events?

a) machine.config

b) web.config

c) global.asax

d) web.asax

21) The advanatges offered by LINQ. (Choose Two)

a) Run-time query syntax checking

b) Compile-time query syntax checking

c) Used for querying XML and RDBMS only

d) A query language as an integrated feature VB.Net or C#.Net

22) Which of the following statements are true about a master page? (Choose Two)

a) A content page cannot access Master page controls .

b) A web application can have more than one master page.

c) Master page is applied to content page using MasterPage attribute of @Page directive.

d) Master pages can be applied dynamically using the Page\_Load event.

23) You need t Choose a valid LINQ query expression to expression to list the products in the descending order of product price.

a) VarmResult= Select Product\_Name, Product\_Price from Products OrderByProduct\_Pricedesc;

b) VarmResult= Select Product\_Name, Product\_Price from Products

OrderByProduct\_Price descending;

c) intmResult= Select Product\_Name, Product\_Price from Products Order Product\_Pricedesc;

d) int[] mResult= Select Product\_Name, Product\_Price from Products

Order Product\_Price descending;

24) You are developing a web application which contains 50 pages. You have applied a theme named “MyTheme” at the application level. You need to disable theming for 5 pages in the application. What should you do?

a) SET the value of EnableTheming attribute of the <%@Page%> directive of the said 5 pages to false.

b) Set the EnableTheming attribute of the Master directive page directive to false.

c) Mention the page names in the web.config file for which theming needs to be disabled.

d) Set the DisableTheming attribute of the <%@Page%> directive of the said 5 pages to false.

e) Set the DisableTheming attribute of the Master directive page directive to false.

25) Consider a scenario where the page named ListCourses.aspx contains a CheckBoxList control that needs to be populated with the course name when the page is displayed to the user. Choose the best event from the list below to achieve the above scenario.

a) Page\_PreInit

b) Page\_PreLoad

c) Page\_LoadComplete

d) Page\_Load

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Answer Sheet

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1. B
2. A
3. B,C
4. C
5. B
6. A,C,D
7. A
8. B
9. B
10. B
11. D
12. A,B
13. C
14. B
15. B
16. B
17. B
18. B,D
19. C
20. C
21. B,D
22. B,C
23. A
24. A
25. D