



B.E DEGREE EXAMINATIONS: MAY 2015

(Regulation 2009)

Sixth Semester

COMPUTER SCIENCE AND ENGINEERING

CSE140:Developing Web Applications Using .NET

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. CLR is the .NET equivalent of _____.
 - a) Java Virtual Machine
 - b) Common Language Runtime
 - c) Common Type System
 - d) Common Language Specification
2. Which of the following statements is correct about Managed Code?
 - a) Managed code is the code that is compiled by the JIT compilers.
 - b) Managed code is the code where resources are Garbage Collected.
 - c) Managed code is the code that runs on top of Windows.
 - d) Managed code is the code that is written to target the services of the CLR.
3. The theory of _____ implies that user can control the access to a class, method, or variable.
 - a) Data Hiding
 - b) Encapsulation
 - c) Information Hiding
 - d) Polymorphism
4. In Inheritance concept which of following members of base class are accessible to derived class members?
 - a) Static
 - b) protected
 - c) Private
 - d) shared
5. _____ is a feature that is used for tracking the changes on a table
 - a) Change schema Capture
 - b) Change table Capture
 - c) Change Data Capture
 - d) Change database Capture
6. Which type of integrity preserves the defined relationship between tables when records are entered or deleted?
 - a) Entity integrity
 - b) Domain integrity
 - c) Referential integrity
 - d) User-defined integrity

7. Which one of the following is not the method of DataAdapter?
 - a) Fill
 - b) FillSchema
 - c) ReadData
 - d) Update
8. Which of the following is not true about ADO.NET
 - a) ADO.NET enables to create distributed data sharing applications
 - b) ADO.NET uses XML to transfer data across applications and data source
 - c) ADO.NET doesn't support disconnected architecture
 - d) The classes of ADO.NET are defined in the System.Data namespace
9. ASP.NET separates the HTML output from program logic using a feature named as
 - a) Exception
 - b) Code Behind
 - c) Code Front
 - d) Master Page
10. In Microsoft Visual Studio _____ technology and a programming language is used to create a Web based application.
 - a) JAVA
 - b) J#
 - c) VB.NET
 - d) ASP.NET

PART B (10 x 2 = 20 Marks)

11. What are the components of .NET framework?
12. Compare the features of Java and .NET framework.
13. State the advantages of OOPS.
14. Differentiate between overloading and overriding with suitable example.
15. Summarize the merits and demerits of using temporary tables.
16. List the major components of SQL Server
17. What are the different types of data access models?
18. Compare and contrast SQL Data reader and SQL Data Adapter.
19. Outline the use of <!DOCTYPE> tag in HTML. Give example.
20. List out the benefits of ASP.NET.

PART C (5 x 14 = 70 Marks)

21. a) (i) Draw and describe the components of .NET Framework architecture with a neat sketch (8)
- (ii) Explain the core features and advantages of .NET framework (6)

(OR)

- b) Discuss about the Common Language Runtime(CLR) components and features of .NET framework

22. a) Write a C# program to inherit classes of your choice from a base class Car and print the color, registration number, steering type and extra fittings in the car

(OR)

- b) Demonstrate the Order Management System of Shopping Site using the following UML Diagram representations.
- A. Use case Diagram
 - B. State Chart Diagram
 - C. Activity Diagram
 - D. Sequence Diagram

23. a) (i) Explain in detail the architecture of MS-SQL-Server 2008 (10)
(ii) List the various tasks performed by Relational engine of SQL server (4)

(OR)

- b) (i) Summarize how to create databases, tables and indexes in MS SQL. Explain with example. (10)
(ii) What is the use of temporary table in SQL server and list its different types? (4)

24. a) Illustrate the Role of ADO.NET Data Providers and its interfaces. Explain about Microsoft ADO.NET Data providers and Third-Party Data providers.

(OR)

- b) (i) Discuss about the Connected layer of ADO.NET and explain Connection Object, Command Object with examples. (8)
(ii) Name any five ADO.NET Namespaces and explain their purpose. (6)

25. a) Explain about Cascading Style Sheet. What are the different ways to include CSS with HTML pages?

(OR)

- b) Elaborate on the process of configuring IIS for creating a web application with illustrations.
