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Unit - IV

8. (i) Define web server control. With C# snippet explain the usage of List control and Validation controls (any two).
- (ii) Differentiate between authentication and authorization with proper examples (at least two).
9. (i) What do you mean by State Management? Explain how and why it is important to implement
- (ii) With the help of data bound and data source controls how data can be accessed in ASP.NET applications.

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MCA 4th Semester, 2 Year Course (w.e.f. 2020-21)

Examination, May-2023

WEB DEVELOPMENT USING .NET FRAMEWORK

Paper - 21MCA24C3

Time allowed : 3 hours]

[Maximum marks : 80

Note: Question no. 1 is compulsory. In addition to Ques.

No. 1, attempt four more questions by selecting one question from each unit. All questions carry equal marks.

1. (i) Define the concept of Virtual Object System (VOS) used in C# language.
- (ii) List down any four types of inbuilt libraries provided by .Net framework.
- (iii) C# is true object oriented language. Comment.
- (iv) Explain any one type of inheritance of your choice available with C# language.
- (v) State differences (any four) between Modal and Modeless dialog box.

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- (vi) Make a list of functions (any four) required for viewing the data in ADO.Net.
- (vii) Brief out the programming model followed in ASP.Net application.
- (viii) What important functions is performed by Ad rotator control in ASP.Net applications?

Unit - I

- 2. (i) Mention any four reasons that makes client side programming different from server side programming.
- (ii) Define Jagged arrays. Explain how jagged arrays can be initialized in C# language.
- 3. (i) Illustrate how following operations can be performed with loops in C#; jumping out of loop and skipping a part of loop.
- (ii) What important functions are performed by Common Language Runtime in .Net Framework?

Unit - II

- 4. (i) Explain the following concepts with apt examples; sealed class, virtual class, abstract class & read only members.

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- (ii) What do you understand by overloaded constructors? How they are declared and defined?
- 5. (i) What is call back technique? How delegates are used to implement call back technique in C# programming?
- (ii) With an appropriate C# snippet explain how interfaces can be integrated with inheritance.

Unit - III

- 6. (i) Pictorially represent major components of ADO.Net architecture. Also brief out various functions performed by all components.
- (ii) Detail out how user inputs can be validated? State its importance too in real applications.
- 7. (i) What is customized dialog box? Explain how such dialog box can be created in C#.
- (ii) In reference to ADO.Net, explain the following concepts: Data Sets, Data Tables and Data Views with proper examples.

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