

22/11/2018

(2½ hours)

[Total Marks: 75]



- N. B.: (1) **All** questions are **compulsory**.  
 (2) Make **suitable assumptions** wherever necessary and **state the assumptions** made.  
 (3) Answers to the **same question** must be **written together**.  
 (4) Numbers to the **right** indicate **marks**.  
 (5) Draw **neat labeled diagrams** wherever **necessary**.  
 (6) Use of **Non-programmable** calculators is **allowed**.

1. **Attempt any two of the following:** 10
  - a. Explain .NET framework 4.0 with diagram in detail.
  - b. What is CLR? Explain the role of CLR in .NET framework.
  - c. Explain the features of static member and static function.
  - d. Explain with suitable example about sealed class and method.
  
2. **Attempt any two of the following:** 10
  - a. Explain the concept of private and shared assembly.
  - b. What is namespace? Explain System namespace.
  - c. Explain ASP.NET page life cycle.
  - d. What is Garbage collector? Explain how it is implemented.
  
3. **Attempt any two of the following:** 10
  - a. Explain the usage of button control with suitable example.
  - b. Explain the use of web.config and global.asx files in ASP.NET application.
  - c. What is the difference between Label and Link Label?
  - d. Explain any two ASP.NET server control.
  
4. **Attempt any two of the following:** 10
  - a. Explain Validation controls available in ASP.NET.
  - b. Write a note on state management in ASP .NET.
  - c. Explain the work of session state in ASP.NET.
  - d. Explain any two Site Navigation Controls in ASP.NET.
  
5. **Attempt any two of the following:** 10
  - a. Explain ADO .NET object model with help of suitable diagram.
  - b. Explain in brief the Data Bound Controls.
  - c. Explain in brief about an authentication and authorization.
  - d. Differentiate between DataSet and DataReader.
  
6. **Attempt any two of the following:** 10
  - a. What is LINQ? Give its advantages.
  - b. Explain the working of AJAX.
  - c. Explain the syntax of jQuery with the example.
  - d. List and explain jQuery selectors.



7. Attempt any three of the following:
- a. Explain the concept of boxing and unboxing.
  - b. Explain the concept of Events and Delegates with suitable example.
  - c. What is CSS? Explain internal and external CSS.
  - d. What is master page? Explain the advantages of using master page.
  - e. Explain DataAdapter object in ADO.NET.
  - f. Explain following Ajax controls with example and properties.
    - i. ScriptManager Control
    - ii. Timer Control
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