

Bachelor Level/ Third Year/ Six Semester/ Science
Computer Science and Information Technology (CSc. 360)
(Net Centric Computing)

Full Marks: 60
Pass Marks: 24
Time: 3 hours

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.

Attempt all the questions.

1. Answer the following questions in short : [2x5=10]
 - a. Web Services
 - b. HTTP Protocol
 - c. COM
 - d. CSS
 - e. The GLOBAL ASA file

- 2.a) Differentiate between request and response object with example. [5]
b) Differentiate between database access components (i.e. ADO) and file access components with sample code. [5]

- 3.a) Write a program for entering employee basic information in one ASP page and display it another. [5]
b) Explain file access component and its uses with code. [5]

- 4.a) What do you mean by connection? Illustrate record set with example for deleting data record from the database. [5]
b) Explain the steps required for designing an ASP based application. List different applications of ASP. [5]

- 5.a) Explain Microsoft .NET framework and its components. [5]
b) Differentiate between ASP .NET and classical ASP. Explain the structure of general ASP page. [5]

- 6.a) What are input validation controls? How do they help in .NET framework? Explain with example. [5]
b) Explain exception with suitable example in C# programming. [5]

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1. Answer the following questions in short : [2x5=10]
 - a. Dynamic HTML
 - b. IIS
 - c. ActiveX data Objects
 - d. Microsoft Transaction Server
 - e. J script

- 2.a) Differentiate between session and cookies with examples. [5]
b) Differentiate between database access components (i.e. ADO) and file access components with sample code. [5]

- 3.a) Write a program for entering college general information in one ASP page and display it in another page. [5]
b) Explain exception handling in ASP page with sample code. [5]

- 4.a) What do you mean by record set? Illustrate it with example for updating data record into the database. [5]
b) Explain the steps required for designing an ASP based application. List different applications of ASP. [5]

- 5.a) Differentiate between ASP.NET and classical ASP.NET. Explain the structure of general ASP.NET page. [5]
b) Why do we need generic rather than collection? Define properties in C# with an example. [5]

- 6.a) What are the input validation controls? How do they help in .NET framework? Explain with example. [5]
b) Explain Microsoft .NET framework and its components. [5]

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1. Answer the following questions in short : [2x5=10]
 - a. Client and Server side scripting
 - b. PWS
 - c. ODBC
 - d. ActiveX control
 - e. Server Control and its advantages

- 2.a) Explain internet information server with detail features. What are the different functions of IIS? [5]
b) Differentiate between session and cookies with example. [5]

- 3.a) Write a program for entering student basic information in one ASP page and display it in another page. [5]
b) Explain file access component and its uses with sample code. [5]

- 4.a) What do you mean by record set? Illustrate it with suitable example for inserting data record from the database. [5]
b) Explain the steps required for designing an ASP based application. List different applications of ASP. [5]

- 5.a) Explain exception handling with suitable example in C# programming. [5]
b) Differentiate between ASP .NET and classical ASP. Explain the structure of general ASP page. [5]

- 6.a) What are input validation controls? How do they help in .NET framework? Explain with example. [5]
b) Write in short about Microsoft .NET framework data type. [5]

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1. Briefly explain the following: [2x5=10]
 - a. Web Forms
 - b. Inline and Code Behind Approach of ASP.Net pages
 - c. IIS
 - d. ASP Applications
 - e. Static and dynamic page

- 2.a) Why HTTP is called a stateless protocol? What is session? Explain ASP Session Object with some of its properties and methods. [1+1+3]

- b) What is scripting dictionary object in ASP? Compare it with array. Explain some properties and methods of dictionary object with example. [1+1+3]

- 3.a) Write a two-page ASP web application where, the first page asks user to enter basic information and the second page displays all the information entered by the user after submitting it. [5]

- b) Explain the advantages of ASP.Net over ASP. How errors are handled in ASP? [3+2]

- 4.a) Why does server need to check browser capabilities? Give an example of how browser capabilities are maintained in Browscap.ini file. [2+3]

- b) Explain the use of BeginTrans, CommitTrans and RollBackTrans in controlling transaction in ASP with an example. [5]

- 5.a) Explain RecordSet Filter property with an example? Discuss briefly about the Stored Procedure with an example. [3+2]

- b) What do you mean by an object? How can you define properties of an object? Illustrate the examples of Class and Objects in C#. [1+2+2]

- 6.a) Why do we need input validation controls? List down all validation controls used in ASP.Net. Explain RequiredField Validator and Range Validator and write example code to show how they are used to validate user inputs. [1+1+3]

- b) What is ADO.Net? Explain the use of Connection, Command and DataReader objects in connecting to a database and retrieving results with an example. [1+4]