

Tribhuvan University  
**Institute of Science and Technology**  
2075  
☆

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 questions.**

1. Answer the following questions in short. [5×2=10]
    - a) Virtual Directory
    - b) Limitation of application variables
    - c) Scripting dictionary object
    - d) Sealed class
    - e) HTML server controls
  
  2. a) Describe the response cookies and request cookies with suitable examples. [5]  
b) Discuss the components on which the capabilities of browser depend. [5]
  
  3. a) What is the significance of stored procedure in query optimization? Explain. [5]  
b) Explain the mechanisms for controlling access and monitoring ASP applications. [5]
- OR**
- Write a server side code in ASP for storing a number given by user in the file named "valid.txt", if the given number is positive and not exceeding 100.
4. a) Why the compiler wish generics rather than collection? Illustrate the relationship between delegate and event with an example. [5]  
b) What is the task of LinkButton? Give the significance of panel as web controls. [5]
  
  5. a) Compare the classical ASP page with ASP.Net page. [5]  
b) Explain the architecture of web in server client communication. [5]
  
  6. a) Assume a database named "MovieRentalSystem" containing a table Movie(id, name, genre, rating). Write a program in ASP.Net to create a page with text field that will take the genre of the movie and extract the movie from database of that genre and sort them according to their rating. [5]  
b) What are the mechanisms to control transactions using ASP? Discuss chain of constructor in C#. [2+3]