# Tribhuvan University Institute of Science and Technology 2081

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Bachelor Level / Third Year /Six Semester/Science Computer Science and Information Technology (CSC 367) (NET Centric Computing) (NEW COURSE)

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

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

#### Section A

## Attempt any TWO questions.

 $[2\times10=20]$ 

- Distinguish between collections and generics. What are named and positional attribute parameters? Write a program to create your own exception when the user gives subject name other than "C#".
   [3+2+5]
- 2. How do you create controller? Illustrate with an example. Describe the procedure of rendering HTML with Razor with a scenario. [5 + 5]
- 3. List some advantages of Entity Framework over ADO.NET. Assume a database named "IOST" with a table FACULTY(Course\_Name, Course\_ID, No\_of\_Semester, fee). Insert some records using ADO.NET and retrieve the fee of records having name CSIT. [3+7]

### Section B

## Attempt any FIVE questions.

 $[5 \times 5 = 25]$ 

4. Describe the procedure of deploying .NET core application.

[5]

- 5. How does ASP.NET core MVC provides patterns-based way to build dynamic website? Explain.
- 6. Define state management. Explain the parts of state management on the client side. [1+4]
- Write a program to validate the form that takes input user name, password and phone number using JQuery. All fields must be non-empty and phone number must contain exactly 10 digits.
- 26. Distinguish between roles and policies. Explain about Kestrel web server in ASP.NET core.
- 9. Describe the life cycle of Dependency Injection container. [2+3]
  - Create a class named EMPLOYEE as super class and ENGINEER and DOCTOR as sub class.
     Make your own assumptions as properties and methods.
- 1. What is the task of ORM? Discuss about open redirect attacks. [2+3]
- 12: Write short notes on
  a) Polymorphism [2×2.5=5]
  - b) Hidden Field.

IOST,TU