

Tribhuvan University
Institute of Science and Technology
2081



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 far as practicable.
The figures in the margin indicate full marks.

Section A

Attempt any TWO questions.

[2 × 10 = 20]

- ✓ 1. List the differences between docker service and container. Illustrate with an example to validate a simple form that consists of a name, email, address and date of birth using JQuery. [3 + 7]
- ✓ 2. Describe about Mono's ASP.NET implementation. How do you compile and execute .NET application? Describe the mechanisms to add support for experimental HTTP methods in ASP.NET core. [2 + 3 + 5]
3. Explain the methods for model binding and routing in ASP.NET core. How do you use JSON to serialize and deserialize objects between the client and server in ASP.NET core? [5 + 5]

Section B

Attempt any EIGHT questions.

[8 × 5 = 40]

4. Show the chain of constructor in inheritance with an example. [5]
- ✓ 5. Why do we need to render HTML? Justify with an example. [5]
- ✓ 6. Describe the two ways that ADO.NET use to fetch data from the database. [5]
- ✓ 7. How do you read, write and remove cookies in ASP.NET core? [5]
- ✓ 8. Illustrate an example that shows the prevention from SQL injection attack. [5]
- ✓ 9. Define controller. Explain the needs of abstract class, sealed class and partial class. [1 + 4]
- ✓ 10. Differentiate between ADO.NET and Entity Framework. [5]
11. Write a program in C# to find the positive numbers from a list of numbers using multiple where conditions in LINQ Query. [5]
- ✓ 12. Write short notes. [2 × 2.5 = 5]
 - ✓ a) Hidden field
 - b) Claim and policy