

Tribhuvan University
Institute of Science and Technology
2020

Bachelor Level / fifth-semester / Science

Computer Science and Information Technology(CACS302)

(DotNet Technology)

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Full marks: 60

Pass marks: 24

Time: 3 hours

Group B

Attempt any SIX questions.

[6x5=30]

2. Differentiate Object Oriented Programming and Object Based Programming. Explain some of the major features of C# language. [2+3]
3. Explain overview of Microsoft .NET framework and its components in detail. [5]
4. What do you mean by property in C# language? How it is different from method? Compare automatic property with other types of property with suitable example. [1+1+3]
5. Define constructor. Explain different types of constructors used in C# with example. [1+4]
6. Define inheritance. Write a C# program to demonstrate multilevel and multiple inheritance. [1+2+2]
7. What is generics? List different types of generic classes. Explain delegate with example. [1+1+3]
8. What do you mean by lambda expression? Explain different types of lambda expression used in C# with example. [1+4]

Group C

Attempt any TWO questions.

[2x10=20]

9. a) Write a program to create user registration form in one ASP.NET web page and display filled data in another page. [7]
b) Write a program for handling exception in ASP.NET. [3]
10. a) How virtual method is used to achieve dynamic binding in C#? Explain with the help of suitable program. [1+4]
b) Define operator overloading. Write a C# program to overload binary operator. [1+4]
11. a) What is LINQ? Write a program to select employees whose salary is greater than 20000 and whose address is kathmandu using LINQ. [1+4]
b) Write a C# program to show insert and select operation in database. [5]