



Tribhuvan University
Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2024

Bachelor in Computer Applications
Course Title: Dot Net Technology
Code No: CACS 302
Semester: V

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

Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions.

[6×5 = 30]

2. ✓ What is managed code? Give reason to justify the statement "DOT NET framework is platform independent and Language interoperability". [1+4]
3. What is optional parameter? Write a C# program which stores values in two enumerations, Department and College. It uses two functions to display the data contained in Department and College enumerations. [1+4]
4. ✓ What is difference between value type and reference type in C#? Explain the concept of boxing and unboxing with suitable program. [2+3]
5. ✓ What is interface? Explain with suitable program, how interface can be used to perform multiple inheritance? [1+4]
6. ✓ What are use of finalizer in C#? Explain with suitable program, how base keyword is used to call member function and constructor of parent class? [1+4]
7. ✓ What are keyword used in exception handling? Write a C# program to handle IndexOutOfRangeException and InvalidCastException. [1+2+2]
8. ✓ What is query syntax in LINQ? Explain the standard query operators "select", "contains", "orderBy" and "where" in LINQ with suitable example [1+4]

Group C

Attempt any TWO questions.

[2×10 = 20]

9. a) What is an event? Explain with suitable program, how event is handled in C#. [1+4]
b) What is Lambda expression? Explain the concept of generic delegates with suitable program. [1+4]
10. How this keyword is used to declare indexer? Write C# program to overload unary (++) and relational (==) operator. [2+4+4]
11. What are component of ASP.NET? Explain various validation server control in ASP.NET with suitable program. [2+8]