



Tribhuvan University

Faculty of Humanities and Social Sciences

OFFICE OF THE DEAN

2020

BCA Fifth Semester

Subject: DotNet Technology

Full Marks:60

Time: 3hr

Pass Marks: 24

Group B

Attempt any Six question (6*5=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

Attempts 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. 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. b) Write a C# program to show insert and select operation in database. [5]



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2024

BCA Fifth Semester

Subject: DotNet Technology

Full Marks:60

Time: 3hr

Pass Marks: 24

Group B

Attempt any Six question (6*5=30)

2. What is managed code? Give reason to justify the statement "DOT NET framework is platform independent and Language interoperability".
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.
4. What is difference between value type and reference type in C#? Explain the concept of boxing and unboxing with suitable program.
5. What is interface? Explain with suitable program, how interface can be used to perform multiple inheritance?
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?
7. What are keyword used in exception handling? Write a C# program to handle IndexOutOfRangeException and InvalidCastException.
8. What is query syntax in LINQ? Explain the standard query operators "select", "contains", "orderBy" and "where" in LINQ with suitable example.

Group C

Attempts any TWO questions.

[2x10=20]

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