

# PURBANCHAL UNIVERSITY

2018/ २०७५

4 Years Bachelor of Computer Application (BCA/Eighth Semester/Final)

Time: 3.00 hrs.

Full Marks: 60 / Pass Marks: 24

**BCA453CO, Dot Net Programming**

*Candidates are required to give their own answers in their own words as far as practicable. Figure in the margin indicate full marks.*

## Group A

**Answer TWO questions.**

**2 × 12 = 24**

1. What are the components of NET framework? How do you implement OOP in C#? Explain with example.
2. What is ADO.NET? Explain ADO.NET architecture. Write a program to insert, delete and update employee records (Name, Age, Address, and Basic Salary) in database with proper validation. 2+4+6
3. (a) What is hosting? Write about IIS Web Server and its features  
(b) What is the use of data bound control in web application? Give example.

## Group B

**Answer SIX questions.**

**6 × 6 = 36**

4. What are feature of VB.net? Explain event handling in C#with example.
5. What is a constructor? How do you overload methods in VB.NET?
6. What do you mean by concurrency control? How is concurrency control resolved and maintained in ADO.NET? Explain with example.
7. Write a program to demonstrate the use of smart tags.
8. Explain data grid control used in .NET programming with example.
9. Write a VB.NET client application and incorporate the necessary validations.
10. Write notes on any TWO:
  - (a) Cross language architecture
  - (b) Namespace
  - (c) .NET class libraries

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## Group A

**Answer TWO questions.**

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1. Describe Architecture of NET Framework. Explain Just in Time compilation of managed code.
2. What do you mean by polymorphism? Describe with its types and example.
3. Write a program for Electricity Bill Statement (EBS). The EBS takes units consumed from consumer and calculates; Electricity Charges (EC) using provided criteria:
  - (i) Units less than 100 Rs 500 minimum charge.
  - (ii) Units 100 above 300 below Rs 15 (per unit + minimum charge).
  - (iii) Units above 300 Rs 25 (per unit + minimum charge).

## Group B

**Answer SIX questions.**

**6 × 6 = 36**

4. What is the difference between a class and an object, and how do these terms relate to each other? Explain briefly with examples?
5. List different features of . NET Technology. What does 'managed code' means in . NET context?
6. What are the difference between Radio Button control and Check Box control? Explain with an example.
7. Why do we use String Builder in place of String in C#. NET? Differentiate between string and String Builder.
8. Explain ADO.NET, its features and architecture.

9. Print the following pattern:

2

3 5

7 11 13

17 19 23 29

31 37 41 43 47

10. What is array? Explain types of array with example.

11. Write notes on any TWO:

(a) Base Class Library

(b) Boxing and Unboxing

(c) Inheritance

