

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025  
(Fourth Semester)

Branch- COMPUTER SCIENCE

.NET PROGRAMMING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following is a key feature of .NET architecture? A) Language independence B) Platform dependence C) Lack of interoperability D) Only supports C++	K1	CO1
	2	What does the .NET Framework Class Library (FCL) include? A) Predefined classes and functions for building .NET applications B) Only database management tools C) A compiler for Java programs D) Only supports web development	K2	CO1
2	3	How is a jagged array different from a two-dimensional array? A) A jagged array is an array of arrays with different lengths B) A jagged array always has equal-sized rows C) A jagged array uses more memory than a two-dimensional array D) A jagged array cannot store primitive types	K1	CO2
	4	What type of exception occurs when you try to divide by zero in C#? A) DivideByZeroException B) NullReferenceException C) IndexOutOfRangeException D) IOException	K2	CO2
3	5	Which stream class is used for reading from a file in C#? A) FileStream B) MemoryStream C) BufferedStream D) StreamReader	K1	CO3
	6	What is the return type of a function that does not return any value? A) void B) null C) empty D) none	K2	CO3
4	7	What is the purpose of the params keyword in C#? A) Allows a variable number of arguments to be passed to a function B) Declares an array C) Specifies a mandatory parameter D) Forces parameters to be integers	K1	CO4
	8	Which namespace in C# provides classes for threading? A) System.Threading B) System.Threads C) System.Process D) System.Runtime	K2	CO4
5	9	Which validation control ensures that an input field contains only numeric values? A) RegularExpressionValidator B) CustomValidator C) RequiredFieldValidator D) RageValidator	K1	CO5
	10	What is the main advantage of using Repeater over GridView? A) Provides more flexibility for custom layout B) Has built-in sorting features C) Supports built-in pagination D) Requires no data binding	K2	CO5

Cont...

**SECTION - B (35 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks  $(5 \times 7 = 35)$ 

Module No.	Question No.	Question	K Level	CO
1	11.a.	Write down the Common Language Runtime.  (OR)	K2	CO1
	11.b.	Describe about .NET Architecture with neat diagram.		
2	12.a.	Define the Exception Handling using Multiple Try & Catch blocks.  (OR)	K2	CO2
	12.b.	Illustrate about the Arrays concept and its types with an example.		
3	13.a.	What are the importance of Console I/O operations in .NET Programming.  (OR)	K3	CO3
	13.b.	How does Lambda Expression used in .NET.		
4	14.a.	Examine about Basics of HTML.  (OR)	K3	CO4
	14.b.	How to connect to the Sequences of Pages in ASP.Net.		
5	15.a.	Compose the Concept of Displaying and Editing Data using Grid View.  (OR)	K4	CO5
	15.b.	Infer the Data controls.		

**SECTION - C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks  $(3 \times 10 = 30)$ 

Module No.	Question No.	Question	K Level	CO
1	16	Elaborate in detail about the Common Language Specification.	K2	CO1
2	17	Summarize Various String Operations with examples.	K3	CO2
3	18	Implement the Thread Priorities and Thread Communication using Wait(), Pulse() and PulseAll().	K4	CO3
4	19	Briefly explain Different Types of Project options available in .Net Programming.	K4	CO4
5	20	Design a Webpage for the following I. Gathering the Data from User. II. Validating the Data from User.	K5	CO5