

**PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION MAY 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	What is the main component of the .NET Framework responsible for executing applications? a) Common Language Runtime (CLR) b) Java Virtual Machine (JVM) c) Windows Registry d) Microsoft Office	K1	CO1
	2	Which class library is used for working with databases in .NET? a) System.Data                      b) System.IO c) System.Drawing                  d) System.Threading	K2	CO1
2	3	How do you declare a two-dimensional array in C#? a) int[,] arr = new int[3,4];      b) int arr[3,4]; c) int[][] arr = new int[3][4];    d) int arr = new int(3,4);	K1	CO2
	4	Which method is used to find the length of a string in C#? a) string.Length                      b) string.Size() c) string.Count()                      d) string.getLength()	K2	CO2
3	5	Which of the following is the correct file extension for an ASP.NET webpage? a) .aspx      b) .html      c) .php      d) .jsp	K1	CO3
	6	Which component in ASP.NET handles web requests and responses? a) IIS (Internet Information Services)      b) SQL Server c) Visual Studio                                  d) Web Browser	K2	CO3
4	7	What is the main advantage of using Master Pages in ASP.NET? a) To maintain a consistent layout across multiple web pages b) To store session variables c) To improve website security d) To handle AJAX calls	K1	CO4
	8	Which ASP.NET control is used to display dynamic data in a tabular format? a) GridView                                  b) TextBox c) DropDownList                              d) Label	K2	CO4
5	9	What does the CompareValidator control do? a) Compares the value of one input control with another or a constant value b) Checks if the input is not empty c) Limits the number of characters in input d) Formats the input to uppercase	K1	CO5
	10	How can you perform client-side validation in ASP.NET web forms? a) Enable ClientScript for validation controls b) Only use server-side validation c) Modify Web.config d) Use GridView	K2	CO5

Cont...

**SECTION – B (35 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Describe the Common Language Specification.	K2	CO1
		(OR)		
	11.b.	Outline the Common Language Runtime.		
2	12.a.	Summarize the Various String Operations with examples.	K2	CO2
		(OR)		
	12.b.	Illustrate the Exception Handling using Multiple Try & Catch blocks.		
3	13.a.	State the Lambda Expressions in .NET Programming.	K3	CO3
		(OR)		
	13.b.	How does Read and Write Binary Data works in File.		
4	14.a.	Examine different Views of Web Forms.	K3	CO4
		(OR)		
	14.b.	Explain the Different Project Types.		
5	15.a.	Compose the Concept of Gathering the data from user and validate the user input in Web Forms.	K4	CO5
		(OR)		
	15.b.	Infer the following Data controls. I. Repeater Data Control II. Form View Data Control		

**SECTION -C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Elaborate in detail the .NET Architecture with neat diagram.	K2	CO1
2	17	Summarize the Arrays concept and its types with an example.	K3	CO2
3	18	Implement the Thread Priorities and Thread Communication using Wait(), Pulse() and PulseAll().	K4	CO3
4	19	Use Customizing Tool Bars and Keyword Shortcuts for an applications.	K4	CO4
5	20	Design the following I. Insert and Update Data using Details View II. Display and Edit Data using Grid View	K5	CO5

Z-Z-Z

END