

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCA DEGREE EXAMINATION MAY 2025
(Fourth Semester)

Branch – COMPUTER APPLICATIONS

DISTRIBUTED TECHNOLOGIES

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 core feature of ASP.NET? a) Platform-specific b) Cross-platform support c) Client-side scripting only d) Server-side scripting only	K1	CO1
	2	What is the purpose of the .NET Common Language Runtime (CLR)? a) To compile code into machine language b) To provide runtime services such as memory management c) To serve as a database engine d) To design web pages	K2	CO2
2	3	What is the role of the Global.asax file in ASP.NET? a) It defines database connections b) It configures application-level events c) It is used for client-side scripting d) It is for CSS styling	K1	CO1
	4	IIS stands for: a) Internet Information System b) Internal Information Server c) Internet Information Services d) Internet Interactive Server	K2	CO2
3	5	Which feature of Visual Studio.NET allows debugging of ASP.NET applications? a) IntelliSense b) Breakpoints c) Server Explorer d) Deployment	K1	CO1
	6	What is the function of the Toolbox in Visual Studio.NET? a) To write code b) To design the database c) To add controls to a web page d) To debug applications	K2	CO2
4	7	What is the purpose of the AdRotator control in ASP.NET? a) To display random ads b) To rotate text banners c) To manage CSS styling d) To create sliding menus	K1	CO1
	8	Which control is used for date selection in ASP.NET? a) Calendar b) ListBox c) TextBox d) AdRotator	K2	CO2
5	9	Which ADO.NET object is used to manage a connection to the database? a) DataAdapter b) Connection c) DataReader d) DataSet	K1	CO1
	10	Which ADO.NET object allows data to be read in a forward-only stream? a) DataSet b) DataReader c) DataAdapter d) Command	K2	CO2

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.	Classify the features of the .NET Framework and their role in ASP.NET development.	K3	CO4
		(OR)		
	11.b.	Evaluate how ASP.NET supports web application development through server-side scripting.		
2	12.a.	Explain the process of installing and configuring IIS for ASP.NET applications.	K4	CO5
		(OR)		
	12.b.	Defend the purpose and structure of the Global.asax file.		
3	13.a.	Determine the process of starting a new ASP.NET project in Visual Studio.NET.	K4	CO5
		(OR)		
	13.b.	Evaluate the debugging features available in Visual Studio.NET and their importance.		
4	14.a.	Examine the working of the Calendar control and its applications in web forms.	K4	CO4
		(OR)		
	14.b.	Demonstrate how the AdRotator control can be used for dynamic ad display.		
5	15.a.	Appraise the usage of DataReader and DataAdapter in ADO.NET with examples.	K4	CO5
		(OR)		
	15.b.	Contrast how to establish a connection to an SQL Server database in ADO.NET.		

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	Write a short program in ASP.NET using C# to demonstrate variable declaration, control structures, and a simple function.	K4	CO5
2	17	Dissect a detailed note on how to set up and deploy an ASP.NET web application using IIS.	K4	CO5
3	18	Illustrate the step-by-step process of creating a web form in Visual Studio.NET and adding basic controls.	K4	CO5
4	19	Inference with an example, describe how to use multiple validator controls in a single ASP.NET web form.	K4	CO5
5	20	Write and Elaborate a program to demonstrate database connection, data insertion, and data retrieval using ADO.NET.	K4	CO5

Z-Z-Z

END