

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

BCom DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch -- COMMERCE WITH COMPUTER APPLICATION

.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	CLR stands for: a) Common Language Repository b) Common Language Runtime c) Central Logic Runtime d) Code Language Runtime	K1	CO1
	2	Adding controls (like buttons, labels, text boxes) to a form is important because: a) They make the program compile faster b) They provide user interaction with the application c) They are required for the CLR to run d) They store the project's source code	K2	CO1
2	3	Which property changes the background color of a form? a) ForeColor b) BackColor c) ColorMode d) StyleColor	K1	CO2
	4	Why is the Text property of a Label different from that of a TextBox? a) Label displays static text, while TextBox accepts user input b) Both are identical in functionality c) TextBox cannot change its text at runtime d) Label cannot be used on a form	K2	CO2
3	5	The Toolbox in Visual Studio is used for: a) Writing code b) Debugging programs c) Adding controls to forms d) Storing project files	K1	CO3
	6	A CheckedListBox differs from a ListBox because: a) It cannot display multiple items b) It allows only items to be selected with checkmarks c) It stores numeric values d) It does not allow user interaction	K2	CO3
4	7	The Timer component is mainly used to: a) Display dates b) Trigger events at specified intervals c) Accept user input d) Control form colors	K1	CO4
	8	Which dialog control would you use if you want the user to select text appearance (font, size, bold/italic)? a) ColorDialog b) FontDialog c) SaveFileDialog d) TimerDialog	K2	CO4
5	9	Which of the following is NOT a data component in ADO.NET? a) DataReader b) DataSet c) DataAdapter d) Compiler	K1	CO5
	10	Which method of DataAdapter is used to populate a DataSet? a) ExecuteNonQuery() b) Fill() c) Update() d) ExecuteScalar()	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.	List any seven advantages of using Windows Forms in Visual Basic .NET.	K1	CO1
		(OR)		
	11.b.	State seven steps involved in starting a new Windows Forms project in Visual Basic .NET.		
2	12.a.	Demonstrate, with an example, how to use Message Box. Show() to display a warning message in a VB.NET application.	K2	CO2
		(OR)		
	12.b.	Classify different form controls (Labels, TextBoxes, RadioButtons, Buttons) based on whether they are input, output, or selection controls		
3	13.a.	Apply the concept of event-driven programming to create a VB.NET program where clicking a Button displays the total number of items selected in a CheckedListBox.	K3	CO3
		(OR)		
	13.b.	Determine the difference in usage between a ComboBox and a ListBox by developing a form that uses both controls to display a list of subjects and selected subject details.		
4	14.a.	Ascertain the steps to construct a ToolBar with at least three buttons (New, Save, Exit) in a Windows Forms application.	K3	CO4
		(OR)		
	14.b.	Apply the ColorDialog control in a form where a user selects a background color for a TextBox.		
5	15.a.	Evaluate the process of generating a typed DataSet using Visual Studio.	K4	CO5
		(OR)		
	15.b.	Compare and contrast the roles of DataReader, DataAdapter, and DataSet 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 note on the following (2 marks each = 10): <ul style="list-style-type: none"> ○ CLR ○ Solution ○ Project ○ Code Editor ○ Windows Form 	K1	CO1
2	17	Outline the process of creating a Windows Form application that accepts a user's name in a TextBox and displays it in a MessageBox when a Button is clicked.	K2	CO2
3	18	Plan and build a Windows Form application that uses For... Next loops to add numbers 1–10 into a ListBox and highlights all even numbers.	K3	CO3
4	19	Plan and build a VB.NET program with a ToolBar that contains image-based buttons (e.g., Cut, Copy, Paste). Display a MessageBox showing which action is chosen when each button is clicked.	K3	CO4
5	20	Examine the role of the four DataAdapter commands (Select, Insert, Update, Delete) in synchronizing a DataSet with the database.	K4	CO5