

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

**BCom DEGREE EXAMINATION MAY 2026
(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	The default file extension for a Visual Basic .NET source code file is: a) .vb b) .cs c) .exe d) .dll	K1	CO1
	2	A Windows Form in Visual Basic .NET can be described as: a) A database object for storing records b) A graphical user interface window for user interaction c) A command-line tool d) A code editor window	K2	CO1
2	3	The property used to change the text displayed on a form is: a) Name b) Title c) Text d) Caption	K1	CO2
	4	If multiple RadioButtons are placed inside a GroupBox, what does this ensure? a) All can be selected at once b) Only one can be selected at a time c) They cannot be selected d) They act as Labels	K2	CO2
3	5	The For...Next statement in VB.NET is used for: a) Decision making b) Repetition/looping c) Event handling d) Declaring arrays	K1	CO3
	6	Which statement correctly describes an array in VB.NET? a) A single variable storing only one value b) A data structure used only for strings c) A collection of variables of the same type stored under one name d) A control used for selecting multiple items	K2	CO3
4	7	Which of the following is a Common Dialog Control? a) TextBox b) ColorDialog c) RadioButton d) GroupBox	K1	CO4
	8	In an MDI Application, child forms: a) Open outside the parent form b) Must be placed inside the parent form c) Cannot contain controls d) Run as separate programs	K2	CO4
5	9	Which of the following is a managed provider in ADO.NET? a) OLE DB Provider b) SQL Server .NET Data Provider c) ODBC Driver Manager d) JDBC Provider	K1	CO5
	10	Which property of DataAdapter is used to fill a DataSet with results? a) UpdateCommand b) FillCommand c) SelectCommand d) ExecuteQuer	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.	Write any seven features of the .NET Framework.	K1	CO1
	(OR)			
	11.b.	Write a short note on the following a) Forms b) projects		
2	12.a.	Compare Labels and Text Boxes with respect to their properties and usage in user interface design	K2	CO2
	(OR)			
	12.b.	Summarize the steps required to add controls to a Windows Form in Visual Studio.		
3	13.a.	Construct a Windows Form with three CheckBoxes representing hobbies. When the user clicks a Button, the selected hobbies should be displayed in a MessageBox	K3	CO3
	(OR)			
	13.b.	Experiment with arrays in VB.NET by writing a program that stores 5 student names in an array and displays them in a ListBox when a Button is clicked.		
4	14.a.	Identify how an MDI Menu differs from a normal Menu.	K3	CO4
	(OR)			
	14.b.	Illustrate the Font Dialog Control in detail with example program.		
5	15.a.	Examine the significance of the SelectCommand, InsertCommand, UpdateCommand, and DeleteCommand properties in a DataAdapter.	K4	CO5
	(OR)			
	15.b.	Analyze how a DataSet manages relationships between multiple DataTables.		

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	List and briefly explain the steps involved in creating a new Windows Forms project in Visual Studio.	K1	CO1
2	17	Demonstrate using code how to change a Form's Text property at runtime and interpret its effect on the application's user interface.	K2	CO2
3	18	Organise different types of controls (CheckBox, ComboBox, ListBox) in a form. Apply event-handling concepts to display user selections in a TextBox.	K3	CO3
4	19	Construct a digital clock using the Timer component. Apply formatting so the time appears in HH:MM:SS format. (10 marks)	K3	CO4
5	20	Analyze the differences between connected and disconnected data access in ADO.NET. Give examples using DataReader and DataSet.	K4	CO5