

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCA DEGREE EXAMINATION DECEMBER 2025
(First Semester)

Branch – COMPUTER APPLICATIONS
ADVANCED WEB 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 compiler reads the IL code and translates or produces the machine code that runs on the particular platform? a)MSIL b)Just-in-time c)Java's Compiler d)JVM	K1	CO1
	2	Which escape sequence can be used to indicate the cursor should advance to the next line? a)newline b) escape next c) \n d)\newline	K2	CO1
2	3	Which term used to denote the encapsulation of data and behaviors into a single package or unit? a)Object b)Class c)Datatype d)Expression	K1	CO2
	4	_____ allows you to create a general class and then define specialized classes that have access to the members of the general class. a)Encapsulation b)Polymorphism c)Inheritance d)Overloading	K2	CO2
3	5	_____ are special types of .NET classes whose instances store references to methods as opposed to storing actual data. a)Events b) Arrays c) Delegates d) Exceptions	K1	CO3
	6	C# _____ enable instances of a class or struct to be accessed like an array, using an index value within square brackets. a)Arrays b)Indexers c)Methods d)Objects	K2	CO3
4	7	In ASP.NET the concept of _____ is used to provide a consistent layout for multiple page websites. a)Data b)Navigation c)Calendar d) Master Pages	K1	CO4
	8	To work programmatically with the calendar control, instantiate an object of the _____ class a)Data Time b)Date c)Calendar Date d)Calendar	K2	CO4
5	9	All of the following are examples of ADO.NET data providers except: a)OLEDB b)Oracle c)Access d) SQL Server	K1	CO5
	10	In a connection string _____ represents name of the database a)Database b)Initial catalog c)Data Source d>All of the above	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.	Illustrate Compilation and the MSIL. (OR)	K2	CO1
	11.b.	Explain Increment & Decrement operators with suitable examples.		
2	12.a.	Analyze the importance of constructors with suitable example. (OR)	K5	CO2
	12.b.	Distinguish passing parameters with suitable example.		
3	13.a.	Examine any four string methods with example. (OR)	K4	CO3
	13.b.	Explain Exception objects with suitable example.		
4	14.a.	Compare Label control and Text box control in ASP.NET. (OR)	K3	CO4
	14.b.	Outline Wizard control in ASP.NET.		
5	15.a.	Distinguish Grid View control with suitable example. (OR)	K5	CO5
	15.b.	Explain Multiuser updates in Web Data Access.		

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	Write a C# program that computes the average of 5 exam scores. Use a constant to define the number of scores. Print all scores and the average the value formatted with no digits to the right of the decimal.	K5	CO1
2	17	Explain Overloading methods with suitable program.	K4	CO2
3	18	Compare two kinds of two dimensional arrays creation using C#.	K5	CO3
4	19	Distinguish Validation controls with example.	K4	CO4
5	20	Explain in detail ADO.NET object model.	K2	CO5