

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

MSc (SS) DEGREE EXAMINATION DECEMBER 2025
(Second Semester)

Branch – SOFTWARE SYSTEMS (Five Years Integrated)

OBJECT ORIENTED PROGRAMMING WITH C++

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

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 Basic Datatypes in C++. (OR)	K2	CO1
	11.b.	Explain about different types of Operators in C++.		
2	12.a.	Illustrate the Array of Objects in C++. (OR)	K3	CO4
	12.b.	Determine Function Overloading and Write down the Program.		
3	13.a.	Distinguish with Multiple Constructor in a Class. (OR)	K4	CO3
	13.b.	Examine the Concept of Operator Overloading and Write a Program for Unary and Binary Operators in C++.		
4	14.a.	Justify Constructor in derived Classes. (OR)	K5	CO2
	14.b.	Summarize about Virtual base Classes with suitable program.		
5	15.a.	Generalize the Concept of Exception Handling and How to Avoid it? (OR)	K6	CO5
	15.b.	Categorize about i) Stream I/O ii) File Pointer		

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	Describe the basic Concepts of OOPS in Detail.	K1	CO1
2	17	Write a Program to demonstrate Friend function in C++.	K3	CO2
3	18	Characterize the concept of Parameterized, Copy Constructor with Suitable Program.	K4	CO3
4	19	Visualize the Various types of Inheritance.	K2	CO4
5	20	Conclude the Basics of Polymorphism, Types, Compile and Run Time Polymorphism.	K5	CO5