

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCom(CA) DEGREE EXAMINATION MAY 2024
(First Semester)

Branch – COMMERCE WITH COMPUTER APPLICATIONS

OBJECT ORIENTED PROGRAMMING USING C++

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 type is provided by c++ but not c? a) double b) bool c) int d) float	K1	CO1
	2	The constants are also called as _____ a) preprocessor b) literals c) variables d) const	K2	CO1
2	3	Which is more effective while calling the c++ function? a) call by value b) call by object c) call by reference d) None	K1	CO2
	4	An inline function is expanded during _____ a) run-time b) end of program c) never expanded d) compile-time	K2	CO2
3	5	Which of the following constructors are provided by c++ compiler if not defined in a class? a) copy constructors b) default constructors c) assignment constructors d) all of the mentioned	K1	CO3
	6	Object in a sequence that have the same type, is called a) Operators b) Stacks c) Arrays d) Functions	K2	CO3
4	7	What is inheritance? a) Overloading of classes b) Deriving new class from existing class c) Classes with same names d) Wrapping of data into a single class	K1	CO4
	8	Which concept allows you to reuse the written code in c++? a) Inheritance b) Polymorphism c) Abstraction d) Encapsulation	K2	CO4
5	9	Which is used to check the error in the block? a) throw b) catch c) try d) handler	K1	CO5
	10	The operator used for dereferencing (or) indirection is _____ a) & b) → c) →> d) *	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.	Explain about oops concepts.	K5	CO1
	(OR)			
	11.b.	List out the datatypes in c++.	K4	
2	12.a.	Write a c++ program to find the area of circle & square using inline function.	K6	CO2
	(OR)			
	12.b.	Explain about call by reference with example.	K5	
3	13.a.	Write about Static Member function.	K4	CO3
	(OR)			
	13.b.	Differentiate between Constructors and Destructors.	K4	
4	14.a.	What is inheritance? Explain about Single inheritance with syntax and example.	K5	CO4
	(OR)			
	14.b.	Explain about Overloading binary operator with example.	K5	
5	15.a.	What is Pointers? Explain with simple example program.	K6	CO5
	(OR)			
	15.b.	Discuss about Exception handling.	K6	

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	Explain about operators in c++.	K4	CO4
2	17	Write a c++ program to calculate the mean value using friend function.	K6	CO5
3	18	Write a c++ program for implementing constructor and destructor.	K6	CO5
4	19	Write a c++ program for calculations the student marks using single inheritance.	K6	CO5
5	20	Describe how to throw and catch exception.	K6	CO4