PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Second Semester)

Common to Branches - **INFORMATION TECHNOLOGY &
COMPUTER TECHNOLOGY**

PROGRAMMING IN 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 is the scope resolution operator? a) . b) * c) :: d) ~	K1	CO1
	2	_____ is the output operator. a) >> b) > c) << d) <	K2	CO1
2	3	Which of the following term is used for a function defined inside a class? a) Member variable b) class function c) classic function d) member function	K1	CO2
	4	The _____ is used to destroy the object. a) Constructor b) Destructor c) New d) None of the above	K2	CO2
3	5	When you overload a unary operator using a member function, the function has _____. a) one parameter b) two parameters c) three parameters d) no parameters	K1	CO3
	6	An _____ is a collection of elements of same data type. a) structure b) union c) class d) array	K2	CO3
4	7	A _____ function is a function that has no body inside its base class. a) inline b) friend c) pure virtual d) constructor	K1	CO4
	8	_____ is the file mode for opening a file in input mode. a) ios::in b) ios::out c) ios::trunc d) ios::noreplace	K2	CO4
5	9	How do you declare a template? a) template{ } b) temp<> c) template<> d) none of the above	K1	CO5
	10	Which key word is used to check exception in the block of code? a) catch b) throw c) try d) none of the above	K2	CO5

22ITU206N / 22ITU206 / 18ITU07 /
22CTU206N / 22CTU206 / 18CTU06

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.	Analyze the predefined streams.	K4	CO1
		(OR)		
	11.b.	Examine the scope access operator.		
2	12.a.	Explain the inline functions.	K5	CO2
		(OR)		
	12.b.	Write a C++ program to illustrate function overloading.		
3	13.a.	Outline the rules for operator overloading.	K3	CO3
		(OR)		
	13.b.	Identify pointers to derived classes and base classes.		
4	14.a.	Compare new and delete operator in C++.	K5	CO4
		(OR)		
	14.b.	Explain the sequential read and write operation in a file.		
5	15.a.	Discuss any five string handling functions.	K6	CO5
		(OR)		
	15.b.	Elaborate the multiple catch statement.		

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	Elaborate the key concept of Object-oriented Programming.	K6	CO1
2	17	Demonstrate the friend functions.	K3	CO2
3	18	Explain the types of inheritance.	K5	CO3
4	19	Compare virtual and pure-virtual functions.	K5	CO4
5	20	Experiment with class template and function template.	K3	CO5

Z-Z-Z   END