Reg. No. | | | | | | | | |

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2025.
(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.C.A.

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART-III	CORE-3	U23CA202	OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++

Date & Session: 08.11.2025/AN **Time: 3 hours** **Maximum: 75 Marks**

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer ALL Questions.
CO1	K1	1.	What is meant by a polymorphism in C++? a) class having only single form b) class having many forms c) class having four forms d) class having two forms
CO1	K2	2.	Which of the following permits function overloading on c++? a) type b) number of arguments c) type & number of arguments d) number of objects
CO2	K1	3.	Which is used to define the member of a class externally? a) :: b) : c) # d) !!$
CO2	K2	4.	Which of the following is not a type of Constructor in C++? a) Default constructor b) Parameterized constructor c) Copy constructor d) Friend constructor
CO3	K1	5.	Which concept allows you to reuse the written code in C++? a) Inheritance b) Polymorphism c) Abstraction d) Encapsulation
CO3	K2	6.	Which type of inheritance results in the diamond problem? a) Single level b) Hybrid c) Hierarchical d) Multilevel
CO4	K1	7.	_____is a derived data type. It stores multiple values in a single variable with continuous memory location. a) Pointer b) Array c) Static d) Dynamic
CO4	K2	8.	Which of the following correctly declares an array? a) array {10}; b) int array; c) array array[10]; d) int array[10];
CO5	K1	9.	Which header file is required to use file I/O operations? a) <ifstream> b) <ostream> c) <fstream> d) <iostream>

CO5	K2	10.	What is an exception in C++ program? a) A problem that arises during the execution of a program b) A problem that arises during compilation c) Also known as the syntax error d) Also known as semantic error
Course Outcome	**Bloom's K-level**	**Q. No.**	**SECTION – B (5 X 5 = 25 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	11a.	Illustrate C++ declarations with examples. **(OR)**
CO1	K3	11b.	Explain Function overloading with example program.
CO2	K3	12a.	Demonstrate the array of objects with example. **(OR)**
CO2	K3	12b.	Distinguish Constructor and Destructor.
CO3	K4	13a.	Write a C++ program to demonstrate Unary operator overloading. **(OR)**
CO3	K4	13b.	Examine the Single Inheritance with an example program.
CO4	K4	14a.	Show that Declaration of Pointer with example. **(OR)**
CO4	K4	14b.	Discuss the Polymorphism with example.
CO5	K5	15a.	Write a C++ program to perform sequential I/O operations on a file. **(OR)**
CO5	K5	15b.	Write a C++ program to demonstrate Exception Handling.

Course Outcome	**Bloom's K-level**	**Q. No.**	**SECTION – C (5 X 8 = 40 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	16a.	Distinguish goto and continue statement with an example. **(OR)**
CO1	K3	16b.	Demonstrate about types of Loops in C++ with an example program.
CO2	K4	17a.	Write a C++ program to demonstrate the friend functions. **(OR)**
CO2	K4	17b.	Categorize the Constructors and types in C++ with example.
CO3	K4	18a.	List out the types of overloading operators with example program**.** **(OR)**
CO3	K4	18b.	Construct a Virtual base class in C++ with an example.
CO4	K5	19a.	Briefly explain about Pointers to derived classes and base classes. **(OR)**
CO4	K5	19b.	Describes the Arrays and list out the types with example.
CO5	K5	20a.	Briefly explain about Sequential Read/Write operations with example. **(OR)**
CO5	K5	20b.	Write a C++ program to Demonstrate the String Operations.