Reg. No.:				
_				

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



## PG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2025.

(For those admitted in June 2025 and later)

## PROGRAMME AND BRANCH: M.Sc., COMPUTER SCIENCE

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
I	PART -III	CORE - 2	P25CS102	OBJECT ORIENTED ANALYSIS AND DESIGN & C++

Date & Session: 05.11.2025/FN Time: 3 hours Maximum: 75 Marks

SECTION - A (10 X 1 = 10 Marks)   Answer ALL Questions.	Date of	& Sessi	ion: C	5.11.2025/FN	Time: 3 hours	S	Maximum: 75 Marks
CO1 K1   1.   Cobol is a Generation Language. a) 1GL   b) 2GL   c) 3 GL   d) 4 GL	Course Outcome	Bloom's K-level	_				rks)
relative to the perspective of the viewer. a) Encapsulation b) Modularity c) Hierarchy d) Abstraction  CO2 K1 3. A		K1	1.				d) 4 GL
some manner, depends on the element on the other end of the relationship. a) Dependency b) Aggregation c) Association d) Abstraction  CO2 K2 4. How many approaches are in Classification? a) 2 b) 3 c) 4 d) 5  CO3 K1 5. A	CO1	K2	2.	relative to the pers	spective of the view	er.	-
A   2   b) 3   c) 4   d) 5	CO2	K1	3.	some manner, dep	ends on the elemer	nt on the other	end of the relationship.
A   Class   D   Object   C   Control Statements   Function	CO2	K2	4.				d) 5
block of code at least once. a) While b) For c) do While d) For Each  CO4 K1 7. The purpose of is to release any resources that the object may have acquired during its lifetime, preventing memory leaks and other resource-related issues. a) Constructor b) Destructor c) Control Statements d) Pointers  CO4 K2 8. The capability of a class to derive properties and characteristics from another class is called a) Polymorphism b) Message Passing c) Inheritance d) Class Binding  CO5 K1 9Opens the file for reading (input) operations. a) ios::in b) ios::out c) ios::app d) ios::ate  CO5 K2 10in C++ are a powerful feature enabling generic programming. a) Inheritance b) Exception Handling c) Templates d) Pointer  SECTION - B (5 X 5 = 25 Marks) Answer ALL Questions choosing either (a) or (b)  CO1 K2 11a. Summarize the Generation of Programming Languages. (OR)	CO3	K1	5.				<del>-</del>
have acquired during its lifetime, preventing memory leaks and other resource-related issues.  a) Constructor b) Destructor c) Control Statements d) Pointers  CO4 K2 8. The capability of a class to derive properties and characteristics from another class is called  a) Polymorphism b) Message Passing c) Inheritance d) Class Binding  CO5 K1 9 Opens the file for reading (input) operations.  a) ios::in b) ios::out c) ios::app d) ios::ate  CO5 K2 10 in C++ are a powerful feature enabling generic programming.  a) Inheritance b) Exception Handling c) Templates d) Pointer  SECTION - B (5 X 5 = 25 Marks)  Answer ALL Questions choosing either (a) or (b)  CO1 K2 11a. Summarize the Generation of Programming Languages.  (OR)	CO3	K2	6.	block of code at le	ast once.	•	·
another class is called  a) Polymorphism b) Message Passing c) Inheritance d) Class Binding  CO5 K1 9 Opens the file for reading (input) operations.  a) ios::in b) ios::out c) ios::app d) ios::ate  CO5 K2 10 in C++ are a powerful feature enabling generic programming.  a) Inheritance b) Exception Handling c) Templates d) Pointer  SECTION - B (5 X 5 = 25 Marks)  Answer ALL Questions choosing either (a) or (b)  CO1 K2 11a. Summarize the Generation of Programming Languages.  (OR)	CO4	K1	7.	have acquired dur resource-related is	ring its lifetime, pressues.	venting memory	y leaks and other
CO5 K2 10in C++ are a powerful feature enabling generic programming. a) Inheritance b) Exception Handling c) Templates d) Pointer  SECTION - B (5 X 5 = 25 Marks)  Answer ALL Questions choosing either (a) or (b)  CO1 K2 11a. Summarize the Generation of Programming Languages. (OR)	CO4	K2	8.	another class is ca	alled		
a) Inheritance b) Exception Handling c) Templates d) Pointer  SECTION - B (5 X 5 = 25 Marks)  Answer ALL Questions choosing either (a) or (b)  CO1 K2 11a. Summarize the Generation of Programming Languages.  (OR)	CO5	K1	9.	_	<b>O</b> (	- / -	
CO1 K2 11a. Summarize the Generation of Programming Languages. (OR)	CO5	K2	10.		_	_	
(OR)	Course Outcome	Bloom's K-level		Answ			
CO1 K2 11b. Discuss the Nature of an Object.		K2	11a.		(0	0 0	ges.
	CO1	K2	11b.	Discuss the Natur	e of an Object.		

CO2	K2	12a.	Illustrate the Concept of Multiple Inheritance.
			(OR)
CO2	K2	12b.	Narrate the Importance of the Proper Classification.
CO3	КЗ	13a.	Describe Input Output Statements in C++.
			(OR)
CO3	КЗ	13b.	Identify the Categories of User Define Functions in C++.
CO4	КЗ	14a.	Summarize the Functions and Benefits of Classes and objects.
			(OR)
CO4	КЗ	14b.	Examine the Pointers in C++.
CO5	K4	15a.	Examine the Concept of Virtual Functions.
			(OR)
CO5	K4	15b.	Illustrate the usage of String Handling functions in C++.

Course Outcome	Bloom's K-level	Q. No	$\frac{\text{SECTION} - C \text{ (5 X 8 = 40 Marks)}}{\text{Answer } \frac{\text{ALL}}{\text{Questions choosing either (a) or (b)}}$
CO1	K4	16a.	Describe the Elements of Object Model. (OR)
CO1	K4	16b.	Analyze the Relationship Among the Object.
CO2	K5	17a.	Assess the Relationship among the Classes. (OR)
CO2	K5	17b.	Evaluate the Classical and Modern Approaches of Classification.
CO3	K5	18a.	Discuss the Data types of C++.  (OR)
CO3	K5	18b.	Compare the Functions of the Control Flow Statements in C++.
CO4	K5	19a.	Discuss about Constructors and Destructors. (OR)
CO4	K5	19b.	Compare Single Inheritance with Hierarchical Inheritance.
CO5	К6	20a.	Elaborate the Concepts of Files and its Types in C++ (OR)
CO5	K6	20b.	Bring out the methods of handling Exceptions in C++.