

Reg. No.:



Name:

University of Kerala

U8704

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

COMPUTER APPLICATION

UK2DSCCAP100 - Object Oriented Programming using C++

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	Define a class in C++?	RE	2
2	Scope resolution operator (::) can be overloaded. Identify whether the statement is true or false.	RE	3
3	In C++, when a function is defined inside a class and directly operates on the data members of another class, it is called a _____ function.	UN	2
4	In a multilevel inheritance hierarchy, a class is derived from a _____ class, which in turn is derived from another base class.	UN	4
5	The strcmp() function is used to copy one string into another in C++. Identify whether the given statement is true or false.	UN	3
6	Define Conditional operator in c++ with example	UN	1

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Define runtime polymorphism	UN	3
8	Demonstrate cin and cout.functions	UN	1
9	Illustrate derived class with syntax.	AP	4
10	Identify the purpose of destructor with example.	AP	2

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) Implement exit control and entry control loops in C++. OR B) Write a program to print the fibonacci series in c++	AP	1, 1
12	A) Compare call by value and call by reference parameter passing mechanism with example program. OR B) Explain function overriding implement with an example	AN	2, 4
13	A) Illustrate the concept of an array of objects with a suitable program. OR B) Compare the difference between Late Binding and Early binding.	EV	3, 1
14	A) Create a solution for method overriding in C++.	CR	4, 2

Qn No.	Question	CL	CO
	OR B) Create a program to implement a default constructor that instantiates an object of the Student class with default values for the name and age. Explain how the default constructor initializes the object.		