

ADMISSION NUMBER

School of Computing Science and Engineering Bachelor of Computer Applications

Mid Term Examination - May 2024

Duration: 90 Minutes Max Marks: 50

Sem II - E1UA203C - Object Oriented Programming using C++

General Instructions Answer to the specific question asked Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

1)	Explain constants. Give the syntax for declaring constants in C++?	K2 (2)
2)	What role do classes and objects play in the object-oriented programming paradigm, and how are they related to each other?	K1 (3)
3)	Explain the key principles of object-oriented programming (OOP) and Illustrate their differences from other programming paradigms.	K2 (4)
4)	Explain copy constructor. What is the syntax for defining a copy constructor?	K2 (6)
5)	Explain the concept of the inheritance. What are the various types of inheritance.	K3 (6)
6)	Create a C++ program that defines a function to compute both the area and circumference of a circle. After defining the function, call it from the main function of the program.	K3 (9)
7)	Write a C++ program to find the second largest element in an array of integers.	K4 (8)
8)	Do comparison among for, while and do-while loop in C++. Write a program to print the sum of all odd numbers from 1 to N using a while loop.	K4 (12)
	OR	
	Implement a program to create a class of employee to store its detail (Emp no, name, designation, department, monthly salary). Take input of 5 such employees and print the details of all employees whose salary is >60,000.	K4 (12)