

## Mid Term (Odd) Semester Examination October 2024

		Roll no
Name	e of the Course and semester: B.Tech CSE IIIrd semester e of the Paper: Object oriented programming with C++ r Code: TCS-307	
Time	: 1.5 hour	Maximum Marks: 50
Note: (i) (ii) (iii)	Answer all the questions by choosing any one of the sub questions  Each question carries 10 marks.	
b.	Write the features of OOP and State the differences between Object O Procedural Oriented Programming.  OR  Explain the key reasons why Object-Oriented Programming (OOP) is program for student class details- name, age, marks as its private data member functions.	important. Write a basic C++
	What are header files in C++? Explain the types of header files along OR What are inline functions? Why do we use inline function? State the d	<b>₹</b> .
	State with diagram the structure of C++ program. Why are classes call OR State the concept of call by value and call by reference using an example.	
	Define constructors and destructors. Type of constructors with example OR	
	Write a C++ program to choose the best index of the given array {3, 6 maximum special sum.  Note: An index of the array is called best if the special sum of this ind sum of all the other indices. To calculate the special sum for any index and add it to your sum. Now you pick next two elements i.e., and and Now you will pick the next elements, and this continues till the index elements.	ex is maximum across the special x you pick the first element that is add both of them to your sum.
Q5. a.	Define unary and binary operator overloading with member function a example.  OR	(10 Marks) and friend function along with
b.	What is function overloading. Also state friend function using an exa	mple.