TERM END EXAMINATIONS (TEE) – August 2024

Programme	:	B.Tech.	Semester	:	Fall Semester 2024-2025
Course Name	:	Object Oriented Programming With C++	Course Code	:	CSE2001
Date / Session	:	23 Aug 2024 / Session - I	Slot	:	B14+C14+D14+E14+F14
Time	:	3 Hrs.	Max. Marks	:	100

Answer ALL the Questions

Q. No.		Question Description	Marks
		PART A – (60 Marks)	
1	(a)	Define Object-oriented programming and Explain the features of Object-oriented programming. How it is different than procedure oriented programming.	12
		OR	
	(b)	Describe the inline function in C++ with a program. Write a program on scope resolution operator.	12
2	(a)	Write the syntax of a destructor. Build a program that creates an object, constructor, and destructor consisting of five students' data of name, registration number, and department with the stream, and marks for any three subjects.	12
		OR	
	(b)	Write a C++ program for constructors and destructors. Explain its importance.	12
3	(a)	Explain about Runtime polymorphism. Write a C++ program illustrating Runtime polymorphism.	12
		OR	
	(b)	Mention multi-level inheritance with a sketch. Explain with a suitable program. Write a program for function overloading.	12
4	(a)	Differentiate between class templates and function templates. Write programs for each template.	12
		OR	
	(b)	Illustrate the list container with the program by considering the following functions push_back, push_front, pop_back, pop_front, merge, reverse, sort, and size.	12
5	(a)	Describe the C++ stream class with a neat sketch. Write a program having an I/O function of get() and put().	12
		OR	
	(b)	Write a program working with multiple files.	12

PART B – (40 Marks)

6	Explain Object-oriented programming features by considering any real-world application.	8
7	What is a friend function? Discuss its pros and cons with respect to normal member functions.	8
8	Differentiate various types of constructors with programs for the banking sector.	8
9	How to handle exceptions that arise in constructors? Explain with a C++ Program.	
10	Explain the following I/O Stream functions with suitable examples. i) width() ii) precision() iii) setf() iv) unsetf() v) fill()	

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