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MID TERM EXAMINATIONS – July 2024

Programme	:	B.Tech.	Semester	:	Fall Semester 2024-2025
Course Title/ Course Code	:	Object Oriented Programming Using C++/ CSE2001	Slot/Class ID	:	A24+B24+E23+F21+F22
Time	:	1 ½ hours	Max. Marks	:	50

Answer all the Questions

Q.No.	Sub. Sec.	Question Description	Marks
1		Design a class diagram for ATM (Automated Teller Machine) management system using Unified Modelling Language (UML). Analyse required classes and their respective data and functions.	10
2	(a)	Analyse two use cases where object-oriented programming concept is used . Discuss them.	5
	(b)	Provide an example that demonstrates encapsulation and abstraction separately and shows how they work together to improve code quality.	5
3		Apply class and object concept to implement a program to show the information of 10 students .	10
		Data members: name, age, gender, address, phone no, marks in three subjects.	
		Function Used: get_data(), display_infromation()	
4		Differentiate between constructer and destructor with suitable example. Can we have more than one constructer in a class ? Justify this situation .	10
5		Illustrate the concept of polymorphism with example of function overloading.	10

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