

**Module End Mock Lab Exam C++**

<b>Course Name:</b>	PG – DAC	<b>Batch :</b>	Feb 25
<b>Module Name:</b>	C++ Programming	<b>Date:</b>	05/ 03 / 2025
<b>Max. Marks:</b>	40	<b>Duration</b>	2:00 Hours

**Instructions :**

1. Create new Project by the name CPP\_12\_digit\_PRN in your home directory.
2. After evaluation first compress/zip your folder (named CPP\_<12 digit PRN>) and upload it on EMIS.

Sr. No.	Points to cover	Max Marks	Marks by Evaluator
1	Classes using inheritance, Getter and Setter	5+5+5	
2	virtual function and it's implementation	6	
3	Multiple files	5	
4	User defined exception class	6	
5	Menu Driven Program	5	
6.	Comment & Naming Convention	3	
		<b>Total</b>	_____

**Question:**

Q. 1) A Company has two types of Employees. One is HR employees and another is Training employees. There is always requirement of viewing salaries of employees.

Salary of employees is calculated in different ways (consider month has 31 days).

i. If he/she is HR employees then,

- Company has given 3 Paid Leaves for employee per month. If he/she has taken leaves more than paid leaves then deduct salary accordingly.
- Consider 1250 rupees salary per day.
- after hiring new employee he/she should get 500 rupees/employee as incentive.
- calculate total salary for month.

ii. If he/she is from Training employees then,

- Company has given 2 Paid Leaves for employee. If he/she has taken leaves more than paid leaves then deduct salary accordingly.
- Consider 900 rupees per lecture session.
- extra 400 rupees per lab session ( if he/she attended lab)
- calculate total salary for month.

**Note:** Use of Inheritance and run-time polymorphism is expected (Override calculateSalary()).

I. Base Class → Employee

data members → companyName, employeeName, salary, noOfLeave

II. Derived Classes →

i. HR employee →

data members → noOfEmployeeHired

ii. Training employee →

data members → noOfLectureSession, noOfLabSession

III. Write appropriate user defined exception class

- if incentive amount or leave count is negative then throw exception and show appropriate message.