Lab Final

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Section: A

Batch: 38

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Decision Table Based Testing

Question no 4: A payroll system calculates salaries based on hours worked:

Conditions:

a) Employees working up to 40 hours are paid hourly wages.
b) Overtime (above 40 hours) is paid at 1.5x the hourly rate.
c) Maximum allowed work hours per week is 60 hours.

Solution:

Decision Table

Condition	R1	R2	R3	R4
Hours worked <= 40	T	F	F	F
40 < Hours worked <= 60	F	T	F	F
Hours worked > 60	F	F	T	F
Valid hourly wage provided	T	T	T	F
Action	**R1**	**R2**	**R3**	**R4**
Pay hourly wage only	X			
Pay hourly wage + 1.5x overtime pay		X		
Reject (No bonus)			X	
Reject (Invalid wage)				X

Test Cases

Test Case ID	Hours Worked	Hourly Wage Provided	Expected Result
1	35	Yes	Pay hourly wage only
2	50	Yes	Pay hourly wage + 1.5x overtime pay
3	65	Yes	Reject (No bonus)
4	0	No	Reject (Invalid wage)