

Lab - Code Coverage Analysis - Answer Template

SE3010 – SEPQM Semester 1

Task 2

Table 1: Test cases to test the Ward Application.

#Test Case	Test Inputs		Expected	Actual	Test Result
	Admitted	Discharged	Result	Result	(Pass/Fail)
1	20	5	Move 5 patient to the next ward Admit 10 patients to this ward, Request for more medical officers	Move 5 patient to the next ward Admit 10 patients to this ward, Request for more medical officers	Pass
2	62	10	ATTENTION! Insufficient medical facilities!	ATTENTION! Insufficient medical facilities!	Pass
3	2	5	All patients admitted without any issues	All patients admitted without any issues Ward is not in a critical stage	Fail
4	50	20	Move 15 patients to the next hospital Move 10 patients to the next ward Admit 5 patients to this ward	Move 15 patients to the next hospital Move 10 patients to the next ward Admit 5 patients to this ward, Request for more medical officers	Fail
5	40	38	Admit to this ward	Admit to this ward	Pass

Statement Coverage	= (20 + 1 + 6 + 5 + 3) *100% = 35 *100% = 97.22%
Decision Coverage	$= \underbrace{(4+1+2+1+2)}_{12} *100\% = \underbrace{10}_{12} *100\% = 83.33\%$



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Path Coverage	_= $\frac{5}{7}$ * 100% = 71.42 %
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#Test Case	Test Inputs		Expected	
#Test Case	Admitted	Discharged	Result	
1	22	15	Admit to this ward, Request more medical officers and admit to this ward	
2	8	20	Ward is not in a critical stage	



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5	40	38	Admit to this ward	Admit to this ward	Pass
6	22	15	Admit to this ward, Request more medical officers and admit to this ward	Admit to this ward, Request more medical officers and admit to this ward	Pass
7	8	20	All patients admitted without any issues Ward is not in a critical stage	All patients admitted without any issues	Fail



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Code segment with error	Code segment after fixing the error
{	{
System.out.println("All patients admitted	System.out.println("All patients admitted
without any issues");	without any issues");
if(surplus > -10)	if(surplus < -10)
System.out.println("Ward is not in a	System.out.println("Ward is not in a
critical stage");	critical stage");
}	}