

LIST OF TABLES

	<i>Page</i>
Table 2.1. Table of students' understanding conception	7
Table 3.1. Table of the member of sample from each school	16
Table 4.1. The Average of students' achievements	20
Table 4.2. Grouping criteria based on students' achievements for each school	21
Table 4.3. Number of students' ability in each group for all schools	21
Table 4.4. Area of misconceptions highlighted by each item of the test instrument	22
Table 4.5. The correct and incorrect responses for Question 1	24
Table 4.6. The percentage of student's responses for Question 1	24
Table 4.7. The correct and incorrect responses for Question 7	25
Table 4.8. The percentage of student's responses for Question 7	25
Table 4.9. The correct and incorrect responses for Question 11	26
Table 4.10. The percentage of student's responses for Question 11	27
Table 4.11. The correct and incorrect responses for Question 12	28
Table 4.12. The percentage of student's responses for Question 12	28
Table 4.13. The correct and incorrect responses for Question 14	29
Table 4.14. The percentage of student's responses for Question 14	29
Table 4.15. The correct and incorrect responses for Question 16	30
Table 4.16. The percentage of student's responses for Question 16	30
Table 4.17. The correct and incorrect responses for Question 2	31
Table 4.18. The percentage of student's responses for Question 2	31
Table 4.19. The correct and incorrect responses for Question 8	34
Table 4.20. The percentage of student's responses for Question 8	34
Table 4.21. The correct and incorrect responses for Question 17	35
Table 4.22. The percentage of student's responses for Question 17	35
Table 4.23. The correct and incorrect responses for Question 18	36
Table 4.24. The percentage of student's responses for Question 18	36
Table 4.25. The correct and incorrect responses for Question 4	37
Table 4.26. The percentage of student's responses for Question 4	38

Table 4.27. The correct and incorrect responses for Question 6	39
Table 4.28. The percentage of student's responses for Question 6	39
Table 4.29. The correct and incorrect responses for Question 19	40
Table 4.30. The percentage of student's responses for Question 19	41
Table 4.31. The correct and incorrect responses for Question 5	42
Table 4.32. The percentage of student's responses for Question 5	42
Table 4.33. The correct and incorrect responses for Question 15	43
Table 4.34. The percentage of student's responses for Question 15	44
Table 4.35. The correct and incorrect responses for Question 9	45
Table 4.36. The percentage of student's responses for Question 9	45
Table 4.37. The correct and incorrect responses for Question 20	46
Table 4.38. The percentage of student's responses for Question 20	47
Table 4.39. The correct and incorrect responses for Question 3	48
Table 4.40. The percentage of student's responses for Question 3	48
Table 4.41. The correct and incorrect responses for Question 10	50
Table 4.42. The percentage of student's responses for Question 10	50
Table 4.43. The correct and incorrect responses for Question 13	51
Table 4.44. The percentage of student's responses for Question 13	51
Table 4.45. The frequency of correct responses to the first tier compared with the frequency of correct responses to both tiers.	52
Table 4.46. Percentage of students' misconception	53
Table 4.47. The percentage (%) of senior high schools students grade XI (n=184) Selecting each response combination	54
Table 4.48. Common misconceptions of buffer solutions held by senior high Schools students grade XI (n = 184)	55