

LIST OF CHARTS

CHART NO.		PAGE NO.
1	Chart Showing Changes Made in the Sequencing of Concepts in Units 2, 3 and 5 	81
2	An Overall Picture of the Course Standard VIII - Biology 	82
3	Importance of Studying Science ...	83
4	Structure of a Cell and its Constituents	84
5	Autotrophic Nutrition 	85
6	Heterotrophic Nutrition 	86
7	Transportation and Circulation ...	87
8	Respiration and Production of Energy ...	88
9	Excretion 	89
10	Water Economy 	90
11	Chart Showing the Combination of Components Utilized for Teaching Different Units in the Course 	108

TABLE NO.		PAGE NO.
4.7	ANOVA for the Achievement of Low Intelligence Level Students Belonging to Experimental and Control Groups on Comprehensive Test-I	230
4.8	Significance of Difference Between the Mean Achievement of Low Intelligence Level Students Belonging to Experimental and Control Groups on Comprehensive Test-I	231
5.1	Number of Periods Utilized for Administering Learning Materials and Tests ...	238
5.2	Expenditure that would be Incurred for Preparing 100 Sets of Learning Material and Tests	243
6.1	Percentile, Means, S.D.s and 't' Value for Group A and Group B Students' Performance on the Criterion Test - Knowledge Objective	255
6.2	Percentile, Means, S.D.s and 't' Value for Group A and Group B Students' Performance on the Criterion Test - Understanding Objective	255
6.3	Percentiles, Means, S.D.s and 't' Value for Group A and Group B Students' Performance on the Criterion Test - Objectives Combined	255

(x)

TABLE NO.		PAGE NO.
3.21	Percentiles, Means, S.D.s and 't' Value for the Experimental Group and the Control Groups 2 and 3 Students' (Combined) Perform- ance on the Comprehensive Test- I - Total Marks	190
3.22	Percentiles, Means, S.D.s and 't' Value for the Experimental Group and the Control Group 1 Students' Performance on the Annual Examination	193
3.23	't' Values for Significance of Difference Between Means of Pre-Test and Post-Test Scores - Experimental Group and Control Group 1, Separately	199
3.24	't' Values in Respect of the Comparison of the Means of the Pre-Test and Post-Test Scores of Experimental Group with that of Control Group 1	201
4.1	ANOVA for Achievement of Experimental Group Students Belonging to High, Middle and Low Levels of Intelligence - Combined Compre- hensive Test Score	223
4.2	Significance of Difference Between the Mean Achievement of Experimental Group Students Belonging to High, Middle and Low Levels of Intelligence - Combined Comprehensive Test Scores	223
4.3	ANOVA for the Achievement of High Intelli- gence Level Students Belonging to Experimental and Control Groups on Compre- hensive Test-I	225
4.4	Significance of Difference Between the Mean Achievement of High Intelligence Group Students Belonging to Experimental and Control Groups on Comprehensive Test-I	226
4.5	ANOVA for the Achievement of Middle Intelli- gence Level Students Belonging to Experi- mental and Control Groups on Comprehensive Test-I	227
4.6	Significance of Difference Between the Mean Achievement of the Middle Intelligence Level Students Belonging to Experimental and Control Groups on Comprehensive Test-I	228