

# **CHAPTER - IV**

## **ANALYSIS AND INTERPRETATIONS**

## CHAPTER - IV

### ANALYSIS AND INTERPRETATIONS

#### 4.0.0 Introduction

This chapter deals with the result and interpretation of various objectives. The data were collected through the tools via Attitude towards science prepared by the investigator and Interest towards science (standardize tool by Dubey and Dubey). The collected data were analyzed through the statistical techniques via t-test and Co-relation Objective wise results and interpretation are given under different captions.

#### 4.1.0 Comparison of Attitude towards Science of Tribal and Non-Tribal Students

**Table - 4.1: Summary of t-test for Attitudes towards Science of Tribal and Non-Tribal students**

	N	M.	SD	df	t-value
<b>Tribal</b>	60	30.20	2.37	118	5.04*
<b>Non-tribal</b>	60	32.63	2.88		

\* *Significant at 0.01 levels*

Table 4.1 shows that the t-value (2.62) is significant at 0.01 levels. Hence, the Null hypothesis. "There will be no significant difference of Attitude towards science of tribal and non tribal

students of Class VIII." is rejected. It demonstrates that the non-tribal students have more favorable attitude towards science than that of tribal students.

#### 4.2.0 Comparison of Attitude towards Science of Tribal Boys and Non-tribal Boys

Table - 4.2: Summary of t-test for Attitude towards Science of Tribal Boys and Non-tribal Boys

	N	M.	SD	df	t-value
Tribal	30	29.97	2.61	58	3.37*
Non-tribal	30	32.57	3.28		

\* Significant at 0.01 levels

Table 4.2 shows that the t-value (3.32) is significant at 0.01 levels. Hence, the Null hypotheses. "There will be no significant difference of Attitude towards science of tribal boys and non tribal boys of Class VIII". is rejected. It demonstrates that the non-tribal boys have more favorable attitude towards science than that of tribal boys.

#### 4.3.0 Comparison of Attitude towards Science of Tribal Girls and Non-tribal Girls

Table - 4.3: Summary of t-test for Attitude towards Science of Tribal Girls and Non-tribal Girls

	N	M.	SD	df	t-value
Tribal	30	30.10	2.54	58	4.059*
Non-tribal	30	32.70	2.42		

\* Significant at 0.01 levels

Table 4.3 shows that the t-value (4.059) is significant at 0.01 levels. Hence, the Null hypotheses. "There will be no significant difference of Attitude towards science of tribal girls and non tribal girls of Class VIII". is rejected. It demonstrates that the non-tribal girls have more favorable attitude towards science than that of non-tribal girls.

#### 4.4.0 Comparison of Attitude towards Science of Tribal Boys and Tribal Girls

**Table - 4.4: Summary of t-test for Attitude towards Science of Tribal Boys and Non-tribal Girls**

	N	M.	SD	df	t-value
Tribal Boys	30	29.97	2.61	58	0.19
Tribal Girls	30	30.10	2.54		

Table 4.4 shows that the t-value (0.19) is not significant at 0.01 levels. Hence, the Null hypotheses. "There will be no significant difference of Attitude towards science of tribal boys and tribal girls". is not rejected. It demonstrates that there is no difference in attitude towards science of tribal boys and tribal girls.

#### 4.5.0 Comparison of Attitude towards Science of Non-tribal Boys and Non-tribal Girls

Table 4.5 shows that the t-value (0.17) is not significant at 0.01 levels. Hence, the Null hypothesis. "There will be no significant difference of Attitude towards science of non-tribal boys and non-tribal girls". is not rejected. It demonstrates that there is no difference in attitude towards science of non-tribal boys and non-tribal girls.

**Table - 4.5: Summary of t-test for Attitude towards Science of Non-tribal Boys and Non-tribal Girls**

	N	M.	SD	df	t-value
Non-Tribal Boys	30	32.57	3.28	58	0.17
Non-Tribal Girls	30	32.70	2.42		

#### 4.6.0 Comparison of Interest towards Science of Non-tribal Students and Tribal Students

**Table - 4.6: Summary of t-test for the Interest towards Science of Non-tribal students and Tribal students**

	N	M.	SD	df	t-value
Tribal	30	33.55	9.20	118	3.14*
Non-Tribal	30	39.30	10.79		

\* *Significant at 0.01 levels*

Table 4.6 shows that the t-value (3.14) is significant at 0.01 levels. Hence, the Null hypotheses. "There is no significant difference of interest towards science of tribal students and non-tribal students of class-VIII". is rejected. It demonstrates that the non-tribal students have more interest towards science than the tribal students.

#### 4.7.0 Comparison of Interest towards Science of Tribal Boys and Non-tribal Boys

Table 4.7 shows that the t-value (0.76) is not significant at 0.01 levels. Hence, the Null hypothesis. "There will be no significant difference of interest towards science of tribal boys and non-tribal boys of class VIII". is not rejected. It demonstrates that

the tribal boys and non-tribal boys have the equal interest towards science.

**Table - 4.7: Summary of t-test for the Interest towards Science of Tribal Boys and Non-tribal Boys**

	N	M.	SD	df	t-value
<b>Tribal</b>	30	34.43	8.82	58	0.76
<b>Non-Tribal</b>	30	36.27	9.99		

#### 4.8.0 Comparison of Interest towards Science of Tribal Girls and Non-tribal Girls

**Table - 4.8: Summary of t-test for the Interest towards Science of Tribal Girls and Non-tribal Girls**

	N	M	SD	df	t-value
<b>Tribal</b>	30	32.67	9.48	58	3.52*
<b>Non-Tribal</b>	30	42.00	11.00		

\* Significant at 0.01 levels

Table 4.8 shows that the t-value (3.52) is significant at 0.01 levels. Hence, the Null hypotheses. "There will be significant difference of interest towards science of tribal girls and non-tribal girls". is rejected. It demonstrates that the non-tribal girls have more interest towards science than the tribal girls.

#### 4.9.0 Comparison of Interest towards Science of Tribal Boys and Tribal Girls

Table 4.9 shows that the t-value (0.74) is significant at 0.01 levels. Hence, the Null hypothesis. "There is no significant difference of interest towards science of tribal boys and tribal girls

of class VIII". is not rejected. It demonstrates that the tribal boys and tribal girls have equal interest towards science.

**Table - 4.9: Summary of t-test for the Interest towards Science of Tribal Boys and Tribal Girls**

	N	M	SD	df	t-value
<b>Tribal Boys</b>	30	34.43	8.82	58	0.74
<b>Tribal Girls</b>	30	32.67	9.48		

#### **4.10.0 Comparison of Interest towards Science of Non-tribal Boys and Non-tribal Girls**

Table 4.10 show that the t-value (2.11) is significant at 0.01 levels. Hence, the Null hypothesis, namely, "There will be no significant difference of interest towards science of non-tribal boys and non-tribal girls of class VIII". is not rejected. It demonstrates that the non-tribal boys and non-tribal girls have equal interest in science

**Table 4.10: Summary of t-test for the Interest towards Science of Non-tribal Boys and Non-tribal Girls**

	N	M.	SD	df	t-value
<b>Non-Tribal boys</b>	30	36.27	9.99	58	2.11
<b>Non-Tribal girls</b>	30	42.00	11.00		

#### **4.11.0 Study of relation between the Attitudes towards Science of and Interest towards Science of Tribal Students**

Table 4.11 shows that the Co-relation between the attitude towards science and interest towards science of tribal students of class VIII are almost negligible. Hence, the null hypothesis.

namely. "There will be no significance relation between the attitude towards science and interest towards science of tribal students of Class VIII.". is not rejected.

**Table - 4.11: Summary of Co-relation between Attitude and Interest towards Science for Tribal Students**

<b>Variables</b>	<b>Mean</b>	<b>SD</b>	<b>r-value</b>
<b>Attitude towards Science</b>	30.20	2.37	0.13
<b>Interest towards science</b>	34.43	8.82	

#### **4.11.0 Study of relation between the Attitude towards Science of and Interest towards Science of Non-tribal Students**

**Table - 4.12: Summary of Co-related between Attitude and Interest towards Science for Non-tribal Students**

<b>Variables</b>	<b>Mean</b>	<b>SD</b>	<b>r-value</b>
<b>Attitude towards Science</b>	32.63	2.88	0.15
<b>Interest towards Science</b>	36.27	9.99	

Table 4.12 shows that the Co-relation between the attitude towards science and interest towards science of non-tribal students of class VIII are almost negligible. Hence, the null hypothesis, namely. "There will be no significance relation between the attitude towards science and interest towards science of non-tribal students of Class VIII.". is not rejected.