



PERSONAL, PEER AND PARENTS' PSYCHOLOGICAL FACTORS AND HIGHER SECONDARY STUDENTS' ACHIEVEMENT IN ZOOLOGY

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Abstract

The present study consists of 942 Higher Secondary Students undergoing Higher Secondary Course in Higher Secondary Schools in Nagappattinam, Tiruvarur and Thanjavur Districts of Tamilnadu State. The sample was selected by using simple random sampling technique. To find out the PPP Psychological factors of Higher Secondary Students 5 scales have been constructed and validated by the investigator. The findings of the present study shows that Higher Secondary Students have moderate level of Academic Achievement in Zoology. Higher Secondary Students have moderate level of PPP Psychological factors Total. There is a significant difference between male and female Higher Secondary Students with respect to their Academic Achievement in Zoology and PPP Psychological factors Total. There is a significant difference between rural and urban Higher Secondary students with respect to their Academic Achievement in Zoology and PPP Psychological factors Total. There is a significant difference between Government and Private Higher Secondary students with respect to their Academic Achievement in Zoology and PPP Psychological factors Total.

Key Words: *Personal, Peer and Parents' psychological factors, higher secondary students,*

Introduction

Pupil's achievement depends on various factors. His psychological well being is determined by his friends and parents attachment and his/her Emotional maturity. Quality of Peers and parents encouragement are to be analysed to provide proper environment for the students to have positive promotion in academic achievement. Hence the investigator decided to take up a study to find out the relationship of emotional maturity, quality of friendship, parental encouragement and achievement in Zoology.

Objectives of the Study

The following objectives were framed for the present study:

1. To find out the level of Achievement in Zoology of Higher Secondary Students.
2. To find out the level of PPP Psychological factors in total of Higher Secondary Students.

Hypotheses of the Study

On the basis of the objectives the following hypotheses were framed:

1. The level of Achievement in Zoology of the Higher Secondary Students is average.
2. The level of PPP Psychological factors in total of Higher Secondary Students is low.

Method of Study

The present investigation was undertaken by using normative survey method.

Sample of the Study

The present study consists of 942 Higher Secondary Students undergoing Higher Secondary Course in Higher Secondary Schools in Nagappattinam, Tiruvarur and Thanjavur Districts of Tamilnadu State. The sample was selected by using simple random sampling technique. The distribution of sample is given in the Chapter-III.

Tools Used

The following were the tools used for the present study:

To find out the PPP Psychological factors of Higher Secondary Students 5 scales have been constructed and validated by the investigator, they are:

- a. Mental Health Scale,
- b. Emotional Maturity Scale,
- c. Quality of friendship Scale,
- d. Parental Encouragement Scale and
- e. Attitude towards Zoology Scale.

Statistical Techniques Used

In this present investigation the following Statistical techniques were used.

Descriptive Analysis:

- Measures of central tendency (mean)
- Measures of variability (standard deviation)

Differential Analysis:

- Independent sample 't' test

Analysis of Academic Achievement in Zoology and PPP Psychological factors Scores of Higher Secondary Students

Table No .1

The Mean and Standard Deviation of Academic Achievement in Zoology Scores of Higher Secondary Students

Variables	Sub sample	N	Mean	S.D
Entire		942	69.13	8.015
Gender	Male	309	66.76	8.281
	Female	633	70.29	7.624
Locality	Rural	433	67.37	8.236
	Urban	509	70.63	7.511
Type of Management	Govt	420	67.40	8.095
	Private	522	70.53	7.677

From the Table.1, the Mean and SD are found to be 69.13 and 8.015. So the calculated Mean value indicates that Higher Secondary Students have moderate level of Academic Achievement in Zoology.

Table No.2

The Mean and Standard Deviation of PPP Psychological factors Total Scores of Higher Secondary Students

Variables	Sub sample	N	Mean	S.D
Entire		942	308.47	34.341
Gender	Male	309	297.40	33.353
	Female	633	313.87	33.537
Locality	Rural	433	300.00	33.817
	Urban	509	315.67	33.153
Type of Management	Govt	420	299.95	32.493
	Private	522	315.32	34.286

From the Table.2, the Mean and SD are found to be 308.47 and 34.341. So the calculated Mean value indicates that Higher Secondary Students have moderate level of PPP Psychological factors Total .

Analysis of Academic Achievement in Zoology and PPP Psychological factors Scores of Higher Secondary Students

To test the significance of difference between different sub sample suitable null hypotheses were formulated on the basis of the research hypotheses formulated earlier.

Table No.3

The significance of difference between Male and Female Higher Secondary Students with respect to their Academic Achievement in Zoology and PPP Psychological factors Scores

Variable	Gender	N	Mean	S.D	't' value	Significance at 0.05 level
Academic Achievement in Zoology	Male	309	66.76	8.281	6.308	Significant
	Female	633	70.29	7.624		
PPP-Total	Male	309	297.40	33.353	7.102	Significant
	Female	633	313.87	33.537		

From the Table.3, by comparing the calculated 't' values with the table values (t=1.96.), It is inferred that the Male and Female Higher Secondary Students are having significant difference for the scores of Academic Achievement in Zoology(t=6.308), PPP-Total(t=7.102), as they are having higher calculated 't' value at 0.05 level of significance. Thus the Null hypothesis, There is no significant difference between male and female Higher Secondary Students with respect to their Academic Achievement in Zoology, PPP Psychological factors is accepted. Hence it is concluded that

There is a significant difference between male and female Higher Secondary Students with respect to their Academic Achievement in Zoology.

There is a significant difference between male and female Higher Secondary Students with respect to their PPP Psychological factors Total .

Analysis of Academic Achievement in Zoology and PPP Psychological factors Scores of Rural and Urban Higher Secondary Students

Table No.4

The significance of difference between Rural and Urban Higher Secondary Students with respect to their Academic Achievement in Zoology and PPP Psychological factors Scores

Variable	Locality	N	Mean	S.D	't' value	Significance at 0.05 level
Academic Achievement in Zoology	Rural	433	67.37	8.236	6.306	Significant
	Urban	509	70.63	7.511		
PPP-Total	Rural	433	300.00	33.817	7.148	Significant
	Urban	509	315.67	33.153		

From the Table.4, by comparing the calculated 't' values with the table values (t=1.96), It is inferred that the Rural and Urban Higher Secondary Students are having significant difference for the scores of Academic Achievement in Zoology(t=6.306), PPP-Total(t=7.148), as they are having higher calculated 't' value at 0.05 level of significance. Thus the Null hypothesis, There is no significant difference between rural and urban Students with respect to their Academic Achievement in Zoology, PPP Psychological factors Total , rejected. Hence it is concluded that there is a significant difference between rural and urban Higher Secondary students with respect to their Academic Achievement in Zoology.

There is a significant difference between rural and urban Higher Secondary students with respect to their PPP Psychological factors Total .

Analysis of Academic Achievement in Zoology and PPP Psychological factors Scores of Government and Private Higher Secondary Students

Table No.5

The significance of difference between Government and Private Higher Secondary Students with respect to their Academic Achievement in Zoology and PPP Psychological factors Scores

Variable	Mangmt.	N	Mean	S.D	't' value	Significance at 0.05 level
Academic Achievement in Zoology	Govt	420	67.40	8.095	6.042	Significant
	Private	522	70.53	7.677		
PPP-Total	Govt	420	299.95	32.493	7.037	Significant
	Private	522	315.32	34.286		

From the Table.5, by comparing the calculated 't' values with the table values (t=1.96), It is inferred that the Government and Private Higher Secondary Higher Secondary Students are having significant difference for the scores of Academic Achievement in Zoology(t=6.042), PPP-Total(t=7.037), as they are having higher calculated 't' value at 0.05 level of significance. Thus Null hypothesis, there is no significant difference between Government and Private Students with respect to their Academic Achievement in Zoology, PPP Psychological factors Total , is rejected. Hence it is concluded that there is a significant difference between Government and Private Higher Secondary students with respect to their Academic Achievement in Zoology. Also there is a significant difference between Government and Private Higher Secondary students with respect to their PPP Psychological factors Total .

Conclusion

Higher Secondary Students have moderate level of Academic Achievement in Zoology. Higher Secondary Students have moderate level of PPP Psychological factors Total. There is a significant difference between male and female Higher Secondary Students with respect to their Academic Achievement in Zoology. There is a significant difference between male and female Higher Secondary Students with respect to their PPP Psychological factors Total . There is a significant difference between rural and urban Higher Secondary students with respect to their Academic Achievement in Zoology and PPP Psychological factors Total. There is a significant difference between Government and Private Higher Secondary students with respect to their Academic Achievement in Zoology and PPP Psychological factors Total .

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