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ENVIRONMENTAL AWARENESS AND ACHIEVEMENT IN ZOOLOGY AT HIGHER SECONDARY SCHOOL LEVEL

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ABSTRACT:

In the present study was carried out to find out the Environmental Awareness and Achievement in Zoology at Higher Secondary School level. Normative survey method was adopted. Sample contains 400 Higher Secondary students were selected from 10 Higher Secondary Schools from Kanyakumari district. Environmental Awareness Scale and An Achievement test on zoology was used. Product moment correlation, Significance of difference between two correlation coefficients' -test were used as the statistical techniques. The result showed that there is significant difference in the relationship between Environmental Awareness and Achievement in Zoology at Higher Secondary School Students in the whole sample, Male sample and Female sample.



KEYWORDS: *Environmental Awareness, Achievement in Zoology.*

INTRODUCTION

Environmental Awareness is essential for all of us. Nowadays Environment is highly changed and it may affect the achievement. Environmental awareness proves important for several reasons; it fosters a sense of connection to the natural world, promotes sustainable development and encourages conservation of irreplaceable natural resources and vulnerable plant and animal species. Environmental awareness is an integral part of the movement's success.

1. To find the relationship between Environmental Awareness and Achievement in Zoology for the whole sample.
2. To find out significant difference in the relationship between Environmental Awareness and Achievement in Zoology among higher secondary school Male Students.
3. To find out significant difference in the relationship between Environmental Awareness and Achievement in

- Zoology among higher secondary school Female Students.
4. To find out significant difference in the relationship between Environmental Awareness and Achievement in Zoology for the pairs of Male and Female higher secondary Students.

HYPOTHESES

1. There is significant relationship between Environmental Awareness and Achievement in Zoology for the whole sample.

2. There is significant difference in the relationship of Environmental Awareness and Achievement in Zoology among higher secondary school Male Students.
3. There is significant difference in the relationship of Environmental Awareness and Achievement in Zoology among higher secondary school Female Students.
4. There is significant difference in the relationship of Environmental Awareness and Achievement in Zoology for the pairs of Male and Female higher secondary Students.

METHODOLOGY

The investigator used normative survey method and simple random sampling technique to select the sample. The sample consisted of 400 from Higher Secondary Students Kanyakumari district. Environmental awareness Scale and An Achievement test on zoology was used. Product moment correlation, Significance of difference between two correlation coefficients'- test were used as the statistical techniques.

RESULTS

Hypothesis 1

There is significant relationship between Environmental Awareness and Achievement in Zoology for the whole sample

Table 1

Table showing relationship between Environmental Awareness and Achievement in Zoology in whole sample

Category	'r' between V ₁ andV ₂	SEr	Confidence Interval at 0.01 level	r ² x100 shared variance	Verbal Interpretation of 'r' value
Whole	0.421	0.044	0.207 to 0.434	0.177	Substantial relationship

The above table 1 shows that the coefficient of correlation between the variables Environmental Awareness and Achievement in Zoology of the whole sample was found to be which is statistically significant .In the population the correlation will ranging from 0.207 to 0.434. The shared variance 0.177. According to H.E. Garret (1961) there is a substantial relationship exists between the variable. So it is interpreted that there is a significant substantial relationship between Environmental Awareness and Achievement in Zoology of whole sample. Hence the hypothesis 1 "There is significant relationship between Health Awareness and Achievement in Zoology for the whole sample" is accepted.

Hypotheses 2

There is significant difference in the relationship of Environmental Awareness and Achievement in Zoology among higher secondary school Male Students.

Table 2

Table showing relationship between Environmental Awareness and Achievement in Zoology of Male sample

Category	'r' between V ₁ and V ₂	SEr	Confidence Interval at 0.01 level	r ² x100 shared Variance	Verbal Interpretation of 'r' value
Male	0.634	0.0428	0.525to0.742	40.22	Substantial relationship

The above table 2 shows that the coefficient of correlation between the variables Environmental Awareness and Achievement in Zoology of the male sample was found to be which is statistically significant. In the population the correlation will ranging from .0525 to 0.742.

The shared variance 40.22. According to H.E. Garret (1961) there is a Substantial relationship exists between the variable. So it is interpreted that there is a significant Substantial relationship between Environmental Awareness and Achievement in Zoology of Male students. Hence there is hypothesis 2 "There is significant difference in the relationship of Environmental Awareness and Achievement in Zoology among higher secondary school Male Students" is accepted.

Hypotheses 3

There is significant difference in the relationship of Environmental Awareness and Achievement in Zoology among higher secondary school Female Students.

Table 3
Table showing relationship between Environmental Awareness and Achievement in Zoology of Female sample

Category	'r' between V_1 and V_2	SEr	Confidence level 0.01	$r^2 \times 100$ shared Variance	Verbal interpretation of 'r' value
Female	0.697	0.035	0.606 to 0.780	0.485	Substantial relationship

The above table 3 shows that the coefficient of correlation between the variables Environmental Awareness and Achievement in Zoology of the Female sample was found to be which is statistically significant. In the population the correlation will ranging from 0.38 to 0.63. The shared variance 26.01. According to H.E. Garret (1961) there is a substantial relationship exists between the variable. So it is interpreted that there is a significant substantial relationship between Environmental Awareness and Achievement in Zoology of Female Students. Hence there is hypothesis 3 "There is significant difference in the relationship of Environmental Awareness and Achievement in Zoology among higher secondary school Female Students" is accepted.

Hypotheses 4

There is significant difference in the relationship of Environmental Awareness and Achievement in Zoology for the pairs of male and female higher secondary Students. The testing the second hypotheses the obtained 'r' values for the pairs of sample were tested for their significance of difference.

Comparison of the correlation coefficient of the Male and Female sample

For the obtained correlation coefficient for the male and female. Fisher's 'r' coefficient was found, and the values are given in table number (4). This table shows that the obtained correlation 'r' value is converted into z values by referring the table 'C' of statistical tables and the 'z' values are used for finding Fisher's z coefficient. That is given in table as Critical Ratio (CR) in terms of 'z'.

TABLE 4
Table showing 'r' values 'z' values Critical ratio between Male and Female sample

Category	'r' value	'z' Value	CR	Significance of difference in 'z'
Male	0.634	0.74	1.2	Not Significant
Female	0.697	0.85		

The above table 4 shows that 'r' values corresponding to the male and female are 0.634 and 0.697 respectively. The 'z' values 0.74 and 0.85 respectively. The obtained C.R was 1.2 which is less than the table value of 1.96 not significant at the 0.05 level. Hence the calculated critical ratio between Environmental Awareness and Achievement in Zoology the male and female sample is significantly.

Hence the hypothesis 4 “There is significant difference in the relationship of Environmental Awareness and Achievement in Zoology for the pairs of male and female higher secondary Students”, is rejected.

CONCLUSION

Environmental Awareness and Achievement in Zoology at Higher Secondary School Students that, there is significant difference in the Environmental Awareness and Achievement in Zoology among higher secondary school male and female students. This may be due to the fact that better Environmental awareness make the students to lead good health so that, given proper concentration towards their studies and enables them to complete the tasks which promote better academic achievement.

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