

**CHAPTER - I V**

**ANALYSIS OF DATA**

**AND**

**RESULTS**

## C H A P T E R - I V

### ''ANALYSIS OF DATA AND RESULTS''

#### **4.1 TOOLS:-**

- (i) To make aware the school and college student with environmental consciousness
- (ii) To develop a questionnaire on Environmental awareness and Role Imagination
- (iii) To develop a Socio-Economic Status scale for Boy's and Girl's of School and college students.

#### **4.2 TECHNIQUE USED IN DATA ANALYSIS:-**

Three independent variable Primarily formed the foundation of this study these includes

- (i) Environmental Awareness (ii) Role Imagination
- (iii) Socio-Economic status.

The results are presented under these major categories. their relationship to gender level and Institutional level(schoo/college) and other relevant aspects is also shown.

The score obtained were Institution wise, and then according to gender of the students. The mean score and standard deviation for each group categorised were computed using the formula given below:

$$(i) \quad M = \frac{\Sigma X}{N}$$

$\Sigma X$  = Summation of X group

M = Mean of the group

N = Total number of students in the group

(ii) The standard deviation were computed using the following formula given below:

$$\sigma = \sqrt{\frac{[\sum d^2] - [\sum d/N]^2}{N} \times i}$$

where,  $\sigma$  = Standard deviation  
 $d$  = deviation from the mean  
 and  $i$  = class interval

(iii) **Parametric Statistics:-**

(a) The mean scores were computed using a parametric statistics - 't', the formula given below:

$$t = \frac{M_x - M_y}{\sqrt{\frac{(\sigma_x)^2}{N_1} + \frac{(\sigma_y)^2}{N_2}}}$$

Where,  $M_x - M_y$  = The difference between the

mean of the group, X and Y respectively

$\sigma_x, \sigma_y$  = standard deviation of group X and Y respectively.

(b) The correlation between the various variables were computed using the formula below:

$$r = \frac{N \cdot \sum XY - \sum X \times \sum Y}{\sqrt{N \times \sum (X)^2 - (\sum X)^2} \times \sqrt{N \times \sum (Y)^2 - (\sum Y)^2}}$$

Where, 'r' = Coefficient of correlation between variables

(iv) **Non-Parametric statistics:-**

The  $\chi^2$  test is used to calculate or to know - (i) test of goodness of fit

(ii) Comparison of a number of Frequency distribution

(iii) finding association and relationship between attributes.

The value of  $\chi^2 = \sum \frac{(O-E)^2}{E}$

Where, O = observed frequency

E = expected frequency

$\chi^2$  = Chi-square

**4.3 ANALYSIS AND INTERPRETATION OF DATA:-**

**HYPOTHESIS NO.1:-** "There is no, significance difference between the school & college Boy's and Girl's

To test the hypothesis 't'- statistic is used in the following table:-

TABLE NO:- 4.1: A TABLE FOR SHOWING MEAD,SD AND 't'OF EAW FOR SCHOOL/COLLEGE BOY'S AND GIRL'S

B (N=104) school/college			G (N=88) school/college		
VARIABLE	M	$\sigma$	M	$\sigma$	t
EAW	29.29	5.73	28.73	6.11	0.65 ns

At, 19 d.f

level of significance at 0.05 = 1.99\*

level of significance at 0.01 = 2.6\*\*

ns = not significant.

The calculated value of 't' for school and college Boy's and Girl's of EAW is 0.65 which is not significant at 0.05 level. Then our null hypothesis is accepted.Hence we conclude that there is no, significance difference between the school and college Boy's and Girl's about the EAW.

**HYPOTHESIS No.2-** "There is no, significance difference between the school and College Boy's and Girl's about the Role Imagination"

To test the Hypothesis 't' statistics is used in the following table:-

TABLE NO.:4.2:- A TABLE FOR SHOWING MEAM,SD,AND 't'OF RI FOR SCHOOL AND COLLEGE BOY'S AND GIRL'S-

B (N=104) school/college			G (N=88) school / college		
VARIABLE	M	$\sigma$	M	$\sigma$	t
RI	64.93	12.40	63.63	16.33	0.61 ns

at 190, d.f

Level of significance at 0.05  
= 1.99\*  
Level of significance at 0.01  
= 2.6 \*\*  
ns = not significant.

The calculated value of 't' for school and college Boy's and Girl's of EAW is 0.61 which is not significant at 0.05 level.

Then our null Hypothesis is accepted.

Hence we conclude that there is no, significance difference between the school and college Boy's and Girl's about the RI

#### HYPOTHESIS No.3:-

"There is no, significance relationship between Environmental awareness and Role Imagination of School Students"

Coefficient of correlation 'r' is used to test the hypothesis in the following table:

TABLE NO.4.3: A TABLE FOR SHOWING RELATIONSHIP BETWEEN EAW AND RI OF SCHOOL STUDENTS:-

B/G (N=92)

VARIABLE	M	r	Significant
EAW	26.38	+0.47**	Significant
RI	54.61		

at, n=92

level of significance at 0.05 = .2050\*  
level of significance at 0.05 = .2673\*\*

Table shows that mean of EAW and RI is 26.38 and 54.61 of school Boy's and Girl's; this is clear that students of school has better role imagination than Environmental Awareness. The calculated value of correlation (r) between EAW and RI of school Boy's & Girl's students is +0.47. Which is significant at 0.05 and 0.01 level both. Then our null hypothesis is rejected.

Hence we conclude that there is significant relationship between EAW and RI of school (B/G) students

**HYPOTHESIS NO- 4 :-** "There is no, significance relationship between EAW and RI of college students"

coefficient of correlation (r) is used to test the hypothesis in the following table :-

TABLE NO. 4.4 A TABLE FOR SHOWING RELATIONSHIP BETWEEN EAW AND RI OF COLLEGE STUDENTS,

B/G (N=100)

VARIABLE	M	r	SIGNIFICANT
EAW	31.54	+ 0.073	ns
RI	72.65		

at n = 100

level of significance at 0.05 = 0.154\*  
 level of significance at 0.01= 0.222\*\*  
 ns = not significant.

Table shows that mean of EAW and RI is 31.54 and 72.65 of college Boy's and Girl's this is clear that students of college has better Role imagination than Environmental Awareness.

The calculated value of correlation (r) between Environmental Awareness and Role imagination of college Boy's/Girl's is +0.073. which is not significant at any level. Then our null hypothesis is accepted.

Hence we conclude that there is no, significance relationship between Environmental Awareness and Role imagination of college (Boy's/Girl's) students.

**HYPOTHESIS NO. 5:-** " There is no, significance difference between school Boy's and Girl's of Environmental Awareness"

The statistic 't' is used to test the hypothesis in the following table :



TABLE NO. 4.5 A TABLE FOR SHOWING MEAN SD. AND 't' OF EAW FOR SCHOOL BOYS AND SCHOOL GIRLS

B (N=51)			G (N=41)		t
VARIABLE	M	$\sigma$	M	$\sigma$	
EAW	27.09	4.80	25.36	4.66	1.74 ns

$$d.f = (N_1 + N_2 - 2) = (51 + 41 - 2) = 90$$

level of significance at 0.05 = 1.99\*  
level of significance at 0.01 = 2.68\*\*  
ns = Not significant

Table shows that the mean of EAW of Boy's is greater than EAW of Girl's is 27.09 and 25.36 alternately. Hence Environmental Awareness of Boy's is more positive.

The standard deviation of EAW for school Boy's is 4.80 and standard deviation of EAW for school Girl's is 4.66 less than the EAW of school Boy's. Hence deviation of EAW for school Boy's is higher.

The calculated value of 't' for school Boy's of EAW is 1.74. Which is not significant at 0.05 and at 0.01 level. Then our null hypothesis is accepted.

Hence we can conclude that there is no, significance difference between school Boy's and Girl's of Environmental Awareness.

**HYPOTHESIS NO. 4.6 :-** "There is no, significance difference between school Boy's and Girl's in Role imagination "

The statistic 't' is used to test this hypothesis in the following table :



A	B	C	TOTAL
3	32	16	51

# E.A. OF SCHOOL BOY'S BASED ON GRADING SYSTEM

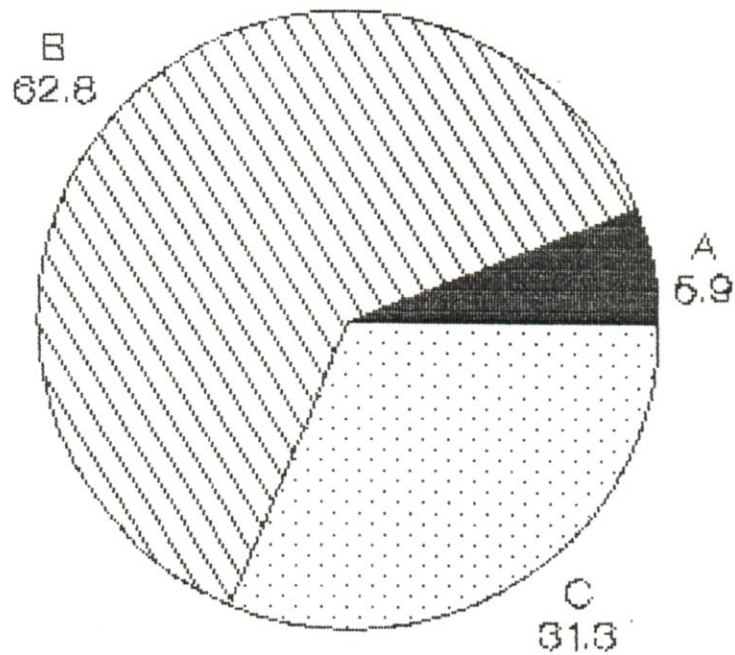


FIG. No - 2

A	B	C	TOTAL
1	21	19	41

# E.A. OF SCHOOL GIRLS BASED ON GRADING SYSTEM

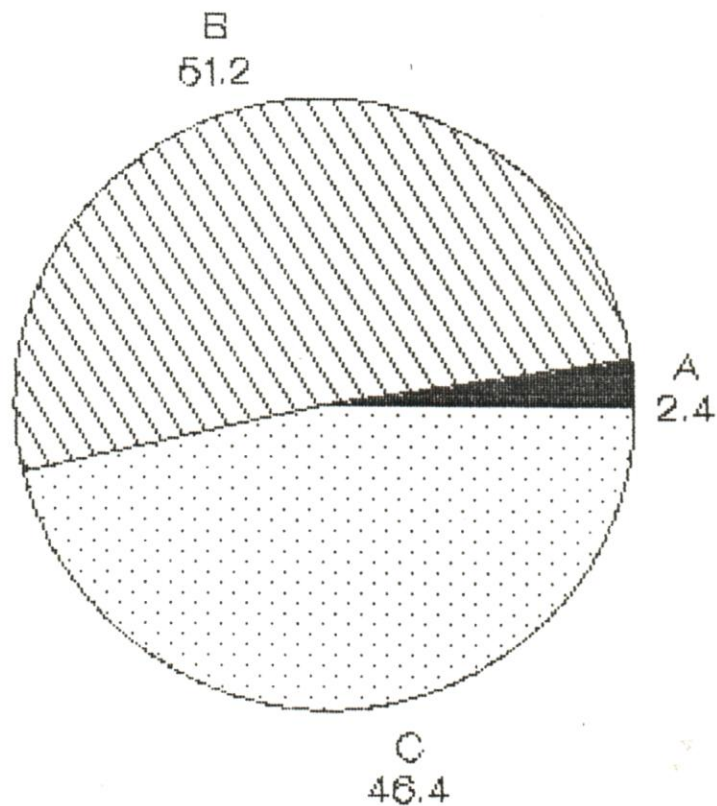


FIG. NO- 3

TABLE No.4.6 A TABLE FOR SHOWING MEAN,SD and 't' of RI FOR SCHOOL BOYS AND GIRLS

B (N= 51)			G(N=41)		
VARIABLE	M	$\sigma$	M	$\sigma$	t
RI	59.2	13.22	50.75	13.78	2.98**

Deegree of freedom =90

level of significance at 0.05 =1.99\*  
 level of significance at 0.01 = 2.68\*\*  
 ns = Not significant

Table shows that the mean of Role imagination of Boy's is greater than Girl's is 59.2 and 50.75 alternately.Hence Role Imagination of school Boy's is more positive.

The standard deviation of School Boy's of RI is 13.22 and standard deviation of school Girl's of RI is 13.78 greater than the RI of school Boy's.

Hence deviation of RI for school Girl's is higher. The calculated value of 't' of school Boy's & Girl's of RI is 2.98 Which is significant at 0 .01 level. Then our null hypothesis is rejected.

Hence we conclude that there is significance difference between school Boy's and Girl's of Role Imagination.

**HYPOTHESIS No.4.7** 'There is no,significance difference between college Boy's and Girl's of Environmental Awareness''

The statistic 't' is used to test the hypothesis in the following table :

TABLE No.4.7 A TABLE FOR SHOWING MEAD, SD, AND 't' OF EAW FOR COLLEGE BOYS AND GIRLS

B (N= 53)			G( N= 47)		
VARIABLE	M	$\sigma$	M	$\sigma$	t
EAW	31.41	5.75	31.68	5.70	0.23 ns

degree of freedom = 98

level of significance at 0.05= 1.98\*  
level of significance at 0.01 = 2.63\*\*  
ns = Not significant

Table shows that the mean of EAW college Boy's is 31.41 less than the mean of EAW of college Girl's is 31.68.

Hence EAW of college Gilr's is more positive. The standard deviation of EAW for college Boy's is 5.75 greater than standard deviation of EAW for college Girl's is 5.70.Hence deviation of college Boy's of EAW is higher.

The calculated value of 't' of college Boy's and Girl's of EAW is 0.23. Which is not significant at any level. Then our null hypothesis is accepted.

Hence we conclude that there is no, significance difference between college Boy's and Girl's of Environmental Awareness.

**HYPOTHESIS NO. -8**"There is no, significance difference between college Boy's and Girl's of Role Imagination"

"The statistic 't' is used to test the hypothesis in the following table :

A	B	C	TOTAL
16	33	4	53

# E.A. OF COLLEGE BOYS BASED ON GRADING SYSTEM

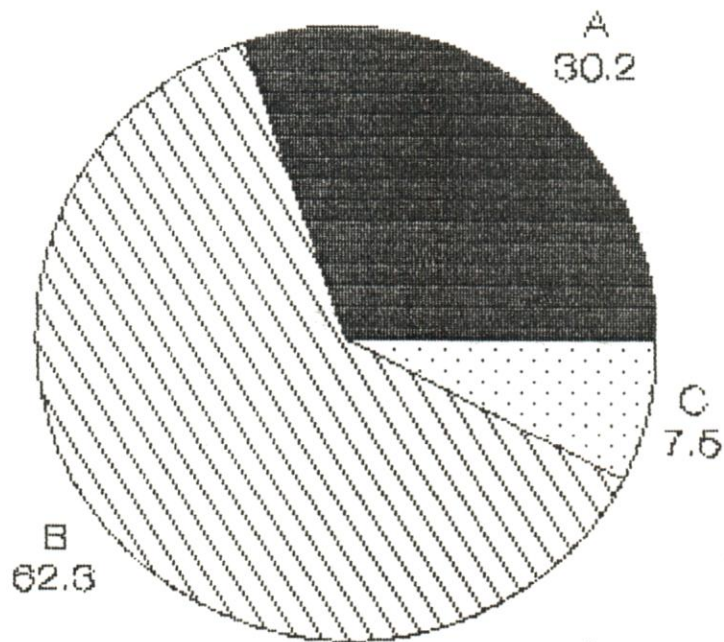


FIG. NO - 4

A	B	C	TOTAL
10	32	5	47

# E.A. OF COLLEGE GIRLS BASED ON GRADING SYSTEM

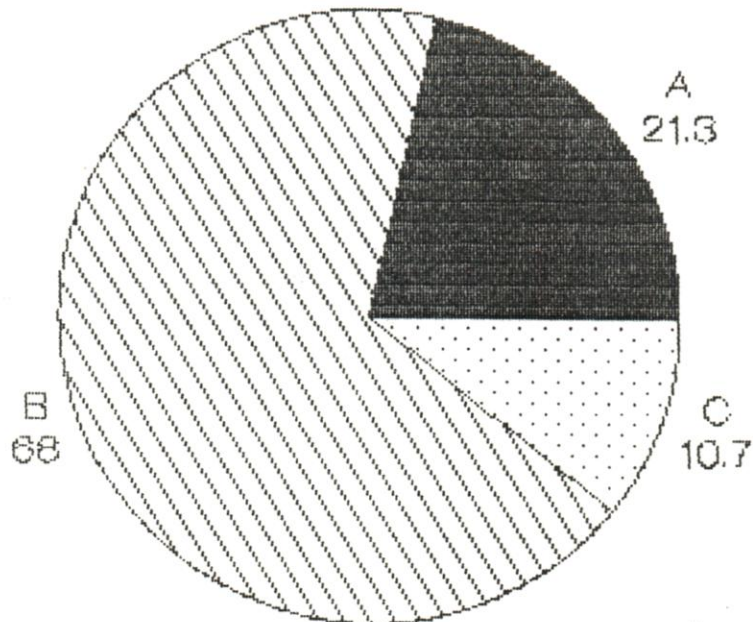


FIG. No-5

TABLE NO 4. 8A TABLE FOR SHOWING MEAN, SD, AND 't' OF RI FOR COLLEGE BOYS AND COLLEGE GIRLS

B(N=53)			G(N=47)		
VARIABLE	M	$\sigma$	M	$\sigma$	t
RI	70.67	7.55	74.87	7.92	2.70**

at, 98 d.f

level of significant at 0.05 = 1.98\*

level of significant at 0.01 = 2.61\*\*

ns = Not significant

Table no 4.8 shows that the mean of RI for college Boy's 70.67 is less than the mean of RI for college Girl's is 74.87. Hence RI of college Girl's is more positive.

The standard deviation of RI for college Boy's is 7.55 less than standard deviation of RI for college Girl's is 7.92. Hence deviation for college Girl's of RI is higher.

The calculated value of 't' for college Boy's and Girl's of RI is 2.70. Which is significant at 0.01 level.

Then our null hypothesis is rejected.

Hence we conclude that there is significance difference between college Boy's and college Girl's of Role Imagination.

**HYPOTHESIS NO 9:** "There is no, significance difference between EAW and RI of school Boy's with regard to their socio-economic status"

In this case here 5 sub-hypothesis arises, as follows:

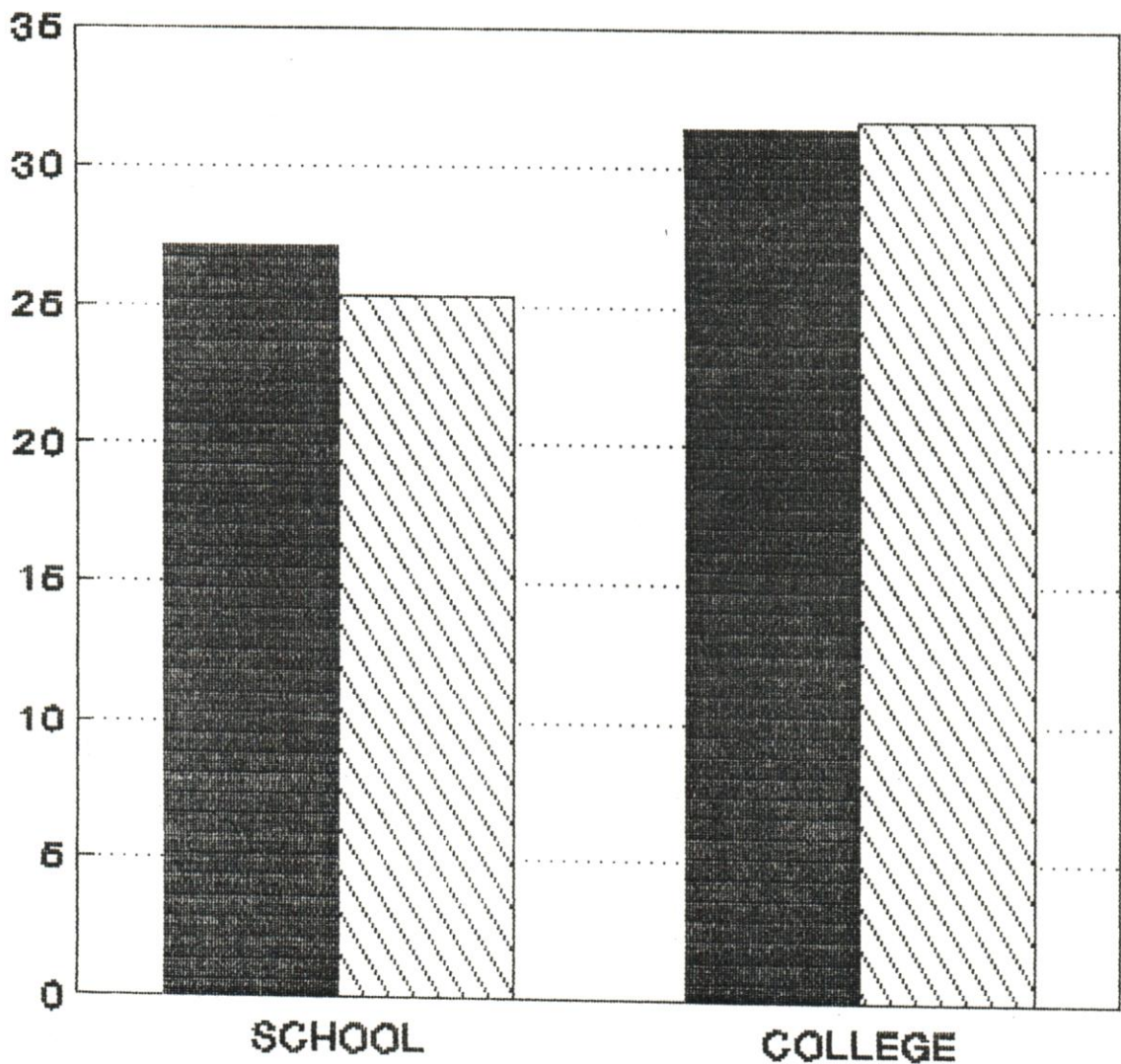


Graph No.-1

SCALE -

Y. AXIS - 1 CM = 5 MARKS

# ENV. AWARE. OF SCHOOL & COLLEGE (B/G)



Series 1      Series 2  
Boys              Girls

FIG. NO - 6

Graph No.-2

SCALE -

Y, AXIS - 1 CM = 20 MARKS

# ROLE IMAGINATION OF SCHOOL & COLLEGE (B/G)

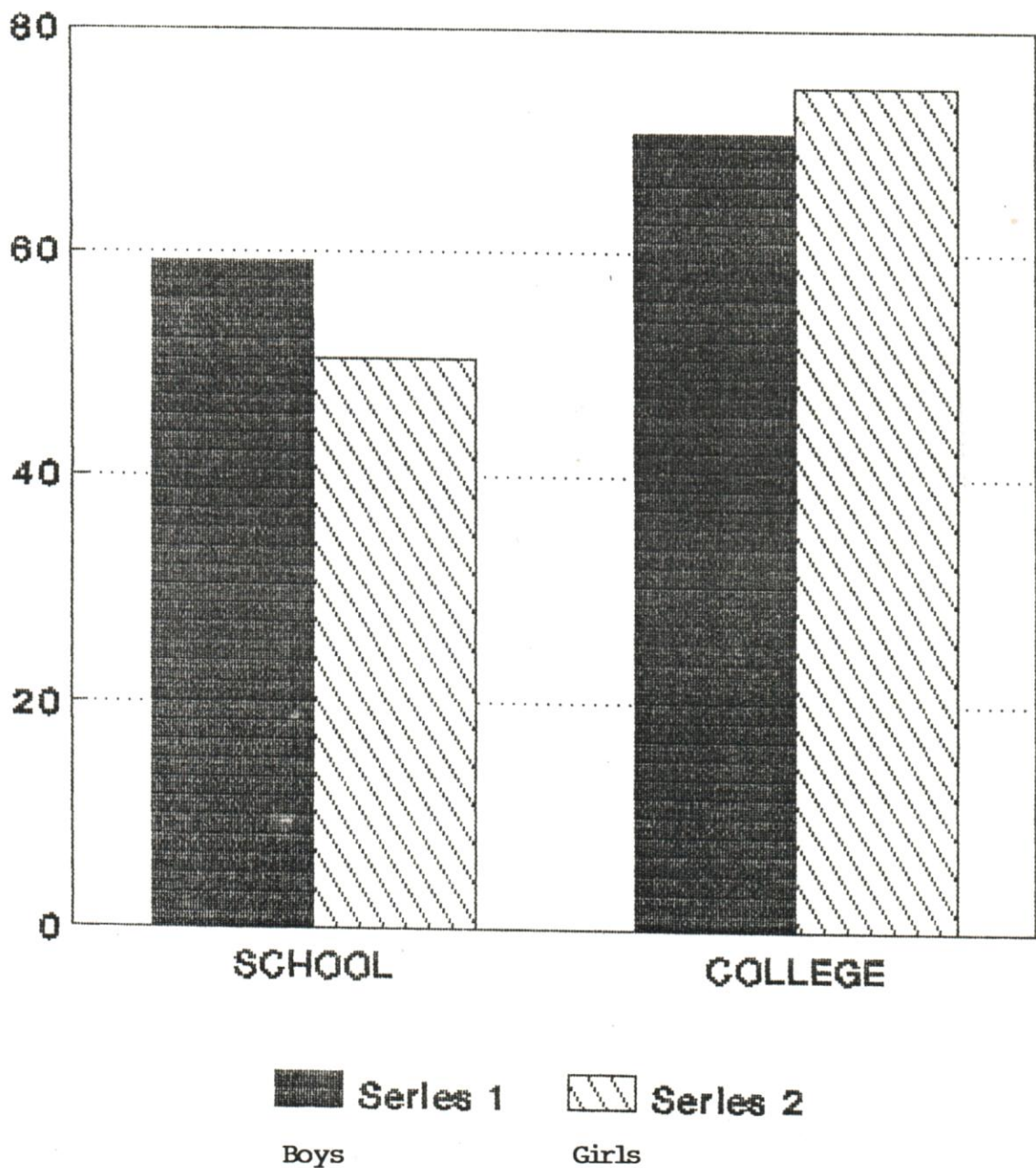


FIG. NO-7

**HYPHOTHESIS 9.1** "There is no, significance difference between EAW and RI of school Boy's with regard to their economic aspect"

The study of above hypothesis EAW and RI of school Boy's with regard to their economic aspect based on. U.C M.C. and L.C.

To test the hypothesis  $\chi^2$ -statistic is used the following table :

**TABLE No. 4.9.1 A TABLE FOR SHOWING MEAN OF EAW AND RI FOR SCHOOL BOYS WITH REGARD TO THEIR ECONOMIC ASPECT BASED ON U.C. M.C. &L.C.**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	52.6	56.8	53.3	162.7	
RI	71.95	65.2	59.6	196.75	1.81 ns
TOTAL	124.55	122	112.9	359.45	

degree of freedom = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = Not significant

Table shows that mean of EAW and RI for school Boy's for upper class family is 52.6 & 71.95, for middle class family 56.8 and 65.2 and for lower class family it is 53.3 & 59.6 alternately.

Hence EAW and RI of upper class family school Boy's is much positive than that of others.

The calculated value of  $\chi^2$  of school Boy's of EAW and RI with regard to their economic aspect is 1.81 which is not significant at only level.

Then our hypothesis is accepted.

Hence we conclude that there is no significance difference between EAW and RI of school Boy's with regard to their economic aspect.

**HYPOTHESIS No. 9.2** "There is no, significance difference between EAW and RI of school Boy's with regard to their parental education"

The study of above hypothesis EAW and RI of school Boy's with regard to their parental education based on U.C, M.C & L.C.

To test the hypothesis  $\chi^2$  statistic is used the following table :

**TABLE No. 4.9.2 A TABLE FOR SHOWING MEAN OF EAW AND RI OF SCHOOL BOYS WITH REARD TO THEIR PARENTAL EDUCATION BASED ON U.C, M.C & L.C**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	54.8	54.85	51.5	161.15	1.81 ns
RI	73.95	64.65	61.32	119.83	
TOTAL	128.75	119.5	112.73	360.98	

at, d.f. = 2

level of significance at 0.05 = 5.911\*  
level of significance at 0.01 = 9.210\*\*  
ns = not significant

Table shows that mean of EAW and RI for school Boy's for upper class family is 54.8 & 73.95 and for middle class family 54.85 & 64.65 and for lowerclass family is 50.25 and 65.23 alternately and also shows

that there is no more variation of EAW of U.C. and M.C but RI is much positive than EAW of others

The calculated value of  $\chi^2$  for school Boy's of EAW and RI with regard to their parental education is 0.38. which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of school Boy's with regard to their parental education.

**HYPOTHESIS No. 9.3 :** "There is no, significance difference between EAW and RI of school Boy's with regard to their social aspect"

To study of above hypothesis EAW and RI of school with regard to their social aspect based on U.C, M.C, & L.C.

To test the hypothesis  $\chi^2$  statistic is used in the following table :

TABLE NO. 4.9.3 A TABLE FOR SHOWING MEAN OF EAW AND RI OF SCHOOL BOYS WITH REGARD TO THEIR SOCIAL ASPECT BASED ON, U.C,M.C,L.C.

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	62	56.55	50.85	169.4	0.26 ns
RI	70.3	66.15	65.23	201.68	
TOTAL	132.3	112.7	116.08	371.08	

at, d.f. = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = not significant

Table shows that mean of EAW and RI for school Boy's for upper class family is 62 & 70.3, for middle class family 56.5 & 66.15 and for lower class family is 50.85 and 65.23 alternately. Hence EAW and RI of upper class family school Boy's is much positive than that of others.

The calculated value of  $\chi^2$  for school Boy's of EAW and RI with regard to their social aspect is 0.26 which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of school Boy's with regard to their social aspect.

**HYPOTHESIS No. 9.4 :-** "There is no, significance difference between EAW and RI of school Boy's with regard to their parental occupation"

To test the above hypothesis  $\chi^2$  statistic is used in the following table:

TABLE NO. 4.9.4 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF SCHOOL BOYS WITH REGARD TO THEIR PARENTAL OCCUPATION BASED ON U.C, M.C,&L.C.

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	52.6	54.2	55	161.8	0.95 ns
RI	69.83	62.48	56.6	188.91	
TOTAL	122.43	116.68	111.6	350.71	

at, d.f. = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = not significant

Table shows that mean of RI for school Boy's for upper class family is 69.83, for middle class family 62.48 and for lower class family is 56.6 hence RI of upper class family school Boy's is much positive that RI of others.

The calculated value of  $\chi^2$  for school Boy's of EAW and RI with regard to their parental occupation, is 0.95 which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of school Boy's with regard to their parental occupation.

**HYPOTHESIS No. 9.5:-** There is no, significance difference between EAW and RI of school Boy's With regard to their size of the family''

To test the above hypothesis  $\chi^2$  statistic is used in the following table :

**TABLE NO. 4.9.5 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF SCHOOL BOYS WITH REGARD TO THEIR SIZE OF THE FAMILY BASED ON U.C, M.C, & L.C.**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	45	54.2	54.9	154.1	0.57 ns
RI	63.7	70.8	63.57	198.07	
TOTAL	108.7	125	118.47	352.17	

at, d.f. = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = not significant

Table shows that mean of RI for school Boy's for upper class family is 63.7 for middle class family 70.8 and for lower class family is 63.57 hence RI of upper class family school Boy's is much positive that RI of others.

The calculated value of  $\chi^2$  for school Boy's of EAW and RI with regard to their size of the family is 0.57 which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of school Boy's with regard to their size of the family.



**HYPOTHESIS No. 10 :-** " There is no, significance difference between EAW and RI of school Girl's With regard to socio-Econmic status"

In this case 5 sub-hypothesis arrises as follows :

**HYPOTHESIS 10.1:** "There is no, significance difference between EAW and RI of school Girl's with regard to their Economic aspect"

To test above hypothdsis  $\chi^2$  statistic is used in the following table:

**TABLE NO. 4.10.1 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF SCHOOL GIRLS WITH REGARD TO THEIR ECONOMIC ASPECT BASED ON U.C, M.C, & L.C.**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	53.45	49.5	49	151.95	1.2 ns
RI	55.45	57.35	41.5	154.3	
TOTAL	108.9	106.85	90.5	306.25	

at, d.f. = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = not significant

Table shows that mean of RI for school Girl's for upper class family is 53.45, for middle class family 49.5 and for lower class family is 49 hence RI of upper class family school Girl's is much positive that RI of others.

The calculated value of  $\chi^2$  for school Girl's of EAW and RI with regard to their economic aspect is 1.2 which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of school Boy's with regard to their economic aspect.

**HYPOTHESIS No. 10.2 :-** "There is no, significance difference between EAW and RI of school Girl's With regard to their parental Education"

To test the above hypothesis  $\chi^2$  statistic is used in the following table :

**TABLE NO. 4.10.2 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF SCHOOL GIRLS WITH REGARD TO THEIR PARENTAL EDUCATION BASED ON U.C, M.C , & L.C.**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	54.4	51.75	48.6	154.75	0.13 ns
RI	54.45	57	52.65	164.1	
TOTAL	108.85	108.75	101.25	318.85	

at, d.f. = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = not significant

Table shows that mean of EAW and RI for school Girl's for upper class family is 54.45 ,and 54.45 for middle class family 51.75 & 57 and for lower class family is 48.6 & 52.6 hence EAW of upper class family

school Girl's is much positive than that of others.

The calculated value of  $\chi^2$  for school Girl's of EAW and RI with regard to their parental education is 0.13 which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of school Girl's with regard to their parental education.

**HYPOTHESIS No. 10.3 :-** " There is no, significance difference between EAW and RI of school Girl's With regard to their social aspect Education"

To test the above hypothesis  $\chi^2$  statistic is used in the following table:

**ABLE NO. 4.10.3 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF SCHOOL GIRLS WITH REGARD TO THEIR SOCIAL ASPECT BASED ON U.C, M.C, & L.C.**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	60	52.8	59.75	172.55	0.87 ns
RI	76.35	54.8	62.2	193.35	
TOTAL	136.35	107.6	121.95	365.9	

at, d.f. = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = not significant

Table shows that mean of EAW and RI for school

Girl's for upper class family is 60 & 76.35 for middle class family 52.8 & 54.8 and for lower class family is 59.75 & 62.2 hence EAW of upper class family school Girl's is much positive than that of others.

The calculated value of  $\chi^2$  for school Girl's of EAW and RI with regard to their social aspect is 0.87 which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of school Girl's with regard to their social aspect.

**YPOTHESIS No. 10.4 :-** " There is no, significance difference between EAW and RF of school Girl's With regard to their parental occupation"

To test the above hypothesis  $\chi^2$  statistic is used in the following table :

**TABLE NO. 4.10.4 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF SCHOOL GIRLS WITH REGARD TO THEIR PARENTAL OCCUPATION BASED ON U.C, M.C, & L.C.**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	54.16	48.19	58	160.35	3.19 ns
RI	59.65	51.13	47.25	158.03	
TOTAL	113.81	99.32	105.25	318.38	

at, d.f. = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = not significant

Table shows that mean of RI for school Girl's for upper class family is 59.65, for middle class family 51.13 and for lower class family is 47.25 hence RI of upper class family school Girl's is much positive that RI of others.

The calculated value of  $\chi^2$  for school Girl's of EAW and RI with regard to their parental occupation is 3.19 which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of school Girl's with regard to their parental occupation.

**HYPOTHESIS NO.10.5:-** "There is no,significance difference between EAW and RI of school Girl's With regard to their size of the family" To test the above

hypothesis  $\chi^2$  statistic is used in the following table:

**TABLE NO. 4.10.5 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF SCHOOL GIRLS WITH REGARD TO THEIR SIZE OF THE FAMILY BASED ON U.C, M.C, & L.C.**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	54	54.5	49.25	157.75	1.10 ns
RI	48.32	53.71	58.88	160.61	
TOTAL	102.32	108.21	107.83	318.36	

at, d.f = 2

level of significance at 0 .05 = 5.911\*

level of significance at 0.01 =9.210\*\*

ns = not significant

The calculated value of  $\chi^2$  for school Boy's of EAW and RI with regard to their size of the family is 1.10. which is not significance .

Then our null hypothesis is accepted. Hence we conclude that there is no, significance difference between EAW and RI of school Girl's with regard to their size of the family.

**HYPOTHESIS No. 11 :-** " There is no, significance difference between EAW and RI of college Boy's with regard to their 'SES.'

in this case 4 sub-hypothesis arises as follows:-

**HYPOTHESIS No. 11.1** "There is no, significance difference between EAW and RI of college Boy's with regard to their Ecomnic aspt"

To test the above hypothesis  $\chi^2$  statistic is used in the following table :-

**TABLE NO. 4.11.1 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF COLEGE BOYS WITH REGARD TO THEIR ECONOMIC ASPECT BASED ON U.C,M.C, & L.C**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	62.4	63.9	52	178.3	0.149 ns
RI	81.6	77.4	68.7	227.7	
TOTAL	144	141.3	120.7	406	

at, d.f. = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = not significant

Table shows that mean of RI for college Boy's for upper class family is 81.6 for middle class family 77.4 and for lower class family is 68.7 hence RI of upper class family college Boy's is much positive that RI of others.

The calculated value of  $\chi^2$  for college Boy's of EAW and RI with regard to their economic aspect is 0.149 which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of college Boy's with regard to their economic aspect.

**HYPOTHESIS NO. 11.2 :-** " There is no, signigicance diference between EAW and RI of college Boy's with regard to their parental Education "

To test above hypothesis

$\chi^2$  statistic is used is the follwing table :

**TABLE NO. 4.11.2 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF COLLEGE BOYS WITH REGARD TO THEIR PARENTAL EDUCATION BASED ON U.C,M.C,&L.C**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	62.1	60.4	64.07	186.57	0.427 ns
RI	81.45	80.3	73.8	235.55	
TOTAL	143.55	141.7	137.87	422.12	

at, d.f. = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = not significant

Table shows that mean of RI for college Boy's for upper class family is 81.45, for middle class family 80.3 and for lower class family is 73.8 hence RI of upper class family college Boy's is much positive that RI of others.

The calculated value of  $\chi^2$  for college Boy's EAW and RI with regard to their parental education is 0.427 which is not significant.

Then our null hypothesis is accepted.

conclude that there is no significance difference between EAW and RI of college Boy's with regard to their parental education.

**HYPOTHESIS No. 11.3 :** "There is no, significance difference between EAW and RI of college Boy's with regard to their social aspect"

To test the above hypothesis  $\chi^2$  statistic is used in the following table :

**ABLE NO. 4.11.3 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF COLLEGE BOYS WITH REGARD TO THEIR SOCIAL ASPECT BASED ON U.C,M.C,& L.C**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	75	58.8	56.9	190.7	1.03 ns
RI	79.65	79.3	65.1	224.05	
TOTAL	154.65	138.1	122	414.75	

at, d.f = 2

level of significance at 0.05 = 5.911\*  
level of significance at 0.01=9.210\*\*  
ns = Not significant



Table shows that mean of EAW and RI for college Boy's to upper class family is 75 & 79.65, for middle class family is 58.8 & 79.3 and for lower class family is 56.9 & 65.1

Hence EAW and RI for upper class family college Boy's is much positive than that of others.

The calculated value of  $\chi^2$  for college Boy's of EAW and RI with regard to their social aspect is 1.03 which is not significant. Then our null hypothesis is accepted. Hence we conclude that their no, significance difference between EAW & RI of college Boy's with regard to their social aspect.

**HYPOTHESIS No. 11.4** "There is no, significance difference between EAW and RI of college Boy's with respect to their parental occupation"

To test the above hypothesis  $\chi^2$  statistic is used is the following table :

**TABLE NO. 4.11.4 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF COLLEGE BOYS WITH REGARD TO THEIR PARENTAL OCCUPATION BASED ON U.C, M.C, & L.C**

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	63.4	31.6	55.2	150.2	6.6**
RI	77.9	72.14	65.9	215.94	
TOTAL	141.3	103.74	121.1	366.14	

at , d.f = 2

level of significance at 0.05 = 5.911\*  
 level of significance at 0.01 = 9.210\*\*  
 ns = Not significant.

Table shows that mean of EAW & RI for college Boy's to upper class family is 63.4 & 77.9, for middle class family is 31.6 & 72.14 and for lower class family is 55.2 & 65.9

Hence EAW & RI for upper class family college Boy's is much positive than that of others.

The calculated value of  $\chi^2$  for college Boy's of EAW and RI with regard to their Parental occupation is 6.6 Which is significant at 0.01 level. Then our null-hypothesis is rejected. Hence we conclude that there is significance difference between EAW and RI of college Boy's with regard to their parental occupation.

**HYPOTHESIS NO. 12** "There is no, significance difference between EAW and RI of college Boy's with regard to their SES"

In this case 4, sub-hypothesis arises as follows:

**Hypothesis No. 12.1** "There is no, significance difference between EAW & RI of college Girl's with regard to there economic aspect "

To test the above Hypothesis  $\chi^2$  statistic is used in the following table :

TABLE NO. 4.12.1 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF COLLEGE BOYS WITH REGARD TO THEIR ECONOMIC ASPECT BASED ON U.C,M.C,& L.C

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	63.8	62.7	0	126.5	0.06 ns
RI	87.3	80.45	0	167.75	
TOTAL	151.1	143.15	0	294.25	

at, d.f = 2

level of significance at 0.05 = 5.911\*  
level of significance at 0.01 = 9.210\*\*  
ns = Not significant.

Table shows that mean of EAW & RI for college Boy's to upper class family is 63.8 & 87.3, for middle class family is 62.7 & 80.45 and for lower class family is 0

Hence EAW & RI for upper class family college Boy's is much positive than that of others.

The calculated value of  $\chi^2$  for college Boy's of EAW and RI with regard to their economic aspect is 0.06 Which is not significant. Then our null-hypothesis is accepted. Hence we conclude that there is no, significance between EAW and RI of college Girl's with regard to their economic aspect.

**Hypothesis No. 12.2** "There is no, significance difference between EAW & RI of college Girl's with regard to there parental education " To test the above hypothesis X statistic in used in the following table:

TABLE NO. 4.12.2 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF COLLEGE GIRLS WITH REGARD TO THEIR PARENTAL EDUCATION BASED ON U.C,M.C,& L.C

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	62.99	63.9	62.7	189.59	0.26 ns
RI	83.3	74.8	80.9	239	
TOTAL	146.29	138.7	143.6	428.59	

at, d.f = 2

level of significance at 0.05 = 5.911\*

level of significance at 0.01 = 9.210\*\*

ns = Not significant.

Table shows that mean of RI for college Girl's to upper class family is 83.3 for middle class family is 74.8 & for lower class family is 80.9 .

Hence RI for upper class family is much positive than that of others .

The calculated value of  $\chi^2$  for college Girl's of EAW and RI with regard to their parental education is 0.26. Which is not significant. Then our null hypothesis is accepted.

Hence we conclude that there is no significance between EAW and RI of college Girl's regard to their parental education.

**Hypothesis No. 12.3** "There is no, significance difference between EAW & RI of college Girl's with regard to there social aspect"

To test the above hypothesis  $\chi^2$  statistic is used in the following table :

TABLE NO. 4.12.3 : A TABLE FOR SHOWING EAW AND RI OF COLLEGE GIRLS WITH REGARD TO SOCIAL ASPECT BASED ON U.C,M.C, & L.C

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	68.6	63.06	58.7	190.36	0.12 ns
RI	89.8	83.46	71.8	245.06	
TOTAL	158.4	146.52	130.5	435.42	

at, d.f = 2

level of significance at 0.05 = 5.911\*  
level of significance at 0.01 = 9.210\*\*  
ns = Not significant.

Table shows that mean of EAW & RI for upper class family College Girl's is 68.6 and 89.8, for middle class family is 63.06 83.46 and for lower class family is 58.7 and 71.8,

Hence EAW and RI for upper class family college Girl's is much positive than that of others.

The calculated value of  $\chi^2$  for college Girl's of EAW and RI with regard to their social aspect is 0.12, Which is not significant. Then our null-hypothesis is accepted.

Hence we conclude that there is no, significance between EAW and RI of college Girl's with regard to their social aspect.

**Hypothesis No. 12.4** "There is no, significance difference between EAW & RI of college Girl's with regard to their parental occupation".

To test the above Hypothesis  $\chi^2$  statistic is used in the following table :

TABLE NO. 4.12.4 : A TABLE FOR SHOWING MEAN OF EAW AND RI OF COLLEGE GIRLS WITH REGARD TO THEIR PARENTAL OCCUPATION BASED ON U.C,M.C,&L.C

VARIABLE	U.C	M.C	L.C	TOTAL	$\chi^2$
EAW	63.3	66.5	61	190.8	0.06 ns
RI	84.05	87.45	84.7	256.2	
TOTAL	147.35	153.95	145.7	447	

at, d.f = 2

level of significance at 0.05 = 5.911\*  
level of significance at 0.01 = 9.210\*\*  
ns = Not significant.

Table shows that mean of EAW & RI for upper class family is 63.3 & 84.5 for middle class family is 66.5 & 87.45 for lower class family is 61 & 84.7

Hence EAW & RI for middle class family of college Girl's is much positive.

The calculated value of  $\chi^2$  for college Girl's of EAW and RI with regard to parental occupation is 0.06. Which is not significant. Then our null-hypothesis is accepted.

Hence we conclude that there is no, significance between EAW and RI of college Girl's with regards to their parental occupation.