Research Paper EDUCATION

Probable Causes of Achievement Difference at Secondary Level of Rural Area With Respect to Urban Area in North Bengal: A Comparative Study.

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ABSTRACT

The present study was conducted to provide some opinion and comparison about the achievement at secondary level in Darjeeling & Jalpaiguri, District West Bengal. Data was collected of 600 students from twelve higher secondary schools in Darjeeling & Jalpaiguri District, by randomly. The results revealed that 1) male and female students differ significantly in their responses of causes of failure at secondary level, 2) urban male & rural male students differ significantly in their responses of causes of failure at Secondary stages, 3) urban female & rural female students differ significantly in their responses of causes of failure at Secondary level.

KEYWORDS | Achievement Difference, opinion difference, Secondary Level, 't'- test, result of secondary level of West Bengal

Introduction

The right to education is one of the fundamental rights proclaimed by the Universal Declaration of Human Rights (Article 26) by the UNESCO i.e. Education for All.

1. To promote education as a fundamental human right.
2. To improve the quality of education and
3. To stimulate experimentation, innovation and policy dialogue.

So now it is time to used ICT for the mass education. Due to globalization and internationalization we are trying to represent us in the world competition regarding every respect of life, so at first we need quality and mass education. It is only possible if we accept to modern ICT and provide quality of teacher to all over the country along with infer structure to implement the modern ICT. But in our country we saw there are huge infrastructural difficulties and efficient teacher to use ICT properly specially in the rural area. There are various types of ICT supplied by the Government/NGO or many private organization but the institute does not use due to various problems.

Objectives of the Study:

The main objective of the study is to find out if there is any relationship between rural and urban in achievement at Secondary Board Examination with the teaching technique, infrastructure, communication, and teachers.

Minor Objectives:

This study will be conducted with a view to satisfy following objectives;

1. To find out the rate of academic achievement of the rural students at the Secondary examination in selected rural schools.
2. To find out the rate of academic achievement of the urban students at the Secondary examination in selected urban schools.
3. To compare the opinion of students regarding achievement difference of the rural students with respect to urban students at the Secondary stages in West Bengal.
4. To identify the probable causes the achievement difference at the Secondary stage between rural and urban area in West Bengal.

Null Hypotheses:

H_{01}: There is no any opinions difference between urban and rural students significantly.

H_{02}: There is no any opinions difference between urban & rural boys significantly.

H_{03}: There is no any opinions difference between urban & rural girls significantly.

H_{04}: There is no any opinions difference between urban boys and rural girls significantly.

H_{05}: There is no any opinion difference between urban girls and rural boys significantly.

SCOPE AND DELIMITATION:

To make the study intensive it was delimited in the following areas.

1. School:

All the Secondary and Higher Secondary School could be included in the study. But considering the facilities and time span, six Boy's High School and six Girls High School (three Rural and three Urban) and six Girls High School (three Rural and three Urban) were taken for the study.

Sl No.	Name of the School	Boys		Girls	
		Urban	Rural	Urban	Rural
1	Netaji Girls' High School (HS)			50	
2	Tarai Tarapada Adarsha mahavidyalay(HS)	50			
3	Iswarchandra Vivyasagar High School(HS)		50		
4	Matigara Balika Vidyalay(HS)				50
5	Union Academy, Jalpaiguri		50		
6	Sahudangi Hat P.K. Roy high School(HS)		50		
7	Sabuj Pally High School	50			
8	Lakhipur Girls High School(HS)				50
9	Shirshi I.M. Sr. Madrasah for Girls'				50
10	Odlabari High School	50			

11	Baradighi Girls' High School			50	
12	Srikrishnapur High School for girls(HS)			50	
	Total	150	150	150	150

2. Area:
This type of study could be conducted in any district of West Bengal, However considering the availability of data and cooperation from the schools in view; Darjeeling & Jalpiguri District was selected as the study area.

3. Subject:
This type of study could be conducted with any opinion from teacher parents and also from the education department and to estimate the achievement gaps between Urban and Rural. But initially it was decided that the study would be conducted on opinion different at Secondary level between rural and urban students. So, only student's opinions were taken into account for calculating the achievements of the students.

SAMPLING:
The random sampling procedure was adopted for selection of sample from the list of Secondary schools in district of Darjeeling and Jalpaiguri, six rural Secondary schools (three Boys school and three Girls school) and six urban Secondary schools (three Boys school and three Girls school) were selected randomly.

DATA BASE:
The data was collected through the following manners:

1. Name of the Student
2. Total Marks in Secondary level
3. Total Percentage of Marks at Secondary level
4. Opinion of the students from structure questionnaire.

ANALYSIS OF DATA PERTAINING TO OBJECTIVE-1
(To find out the rate of academic achievement of the rural students at the Secondary examination in **selected rural schools.)**

Table -1 The table is showing the rate of academic achievement of the rural students' at Board of Secondary Examination.

School		Above 80%	75%-79%	60%-74%	50%-59%	Below 50%
Rural Boys	Number	0	06	10	21	113
	Percentage	0	4	6.67	14	75.33
Rural Girls	Number	3	5	18	30	94
	Percentage	2	3.33	12	20	62.67

ANALYSIS OF DATA PERTAINING TO OBJECTIVE-2

(To find out the rate of academic achievement of the **urban students** at the Secondary examination in selected urban schools.)

Table -2 The Table is showing the rate of academic achievement of urban students' in science subject at Board of Secondary Examination.

School		Above 80%	75%-79%	60%-74%	50%-59%	Below 50%
Urban Boys	Number	34	16	67	33	0
	Percentage	22.67	10.67	44.67	21.99	0
Urban Girls	Number	5	25	52	43	25
	Percentage	3.33	16.67	34.67	28.67	16.67

Interpretation:
From the tables (1 and 2) it is clear that at the secondary level of achievements there was a huge gap in percentage of the students. From table 1 more than 80% students achieved with less than 50% marks at secondary level but in the table 2 more than 60% students achieved with more than 60% marks. So conclusion can be made that urban students' performed with more that 60% marks at secondary level but rural students' perform with less than 50% marks at Secondary level achievement test.

***Hypothesis No – 1*:** There is on any opinions difference between urban and rural students significantly.

Table: 3 Difference between urban & rural Students (Probable causes of failure in Secondary level)

Category	No. of students	Mean	SD	df	t	Remarks
Urban students	300	71.63	7.74	138	4.88	NS
Rural students	300	79.64	11.33			

0.01 level: t- 2.58

0.05 level : t- 1.96

Interpretation:
above Table 3 shows that the Mean 71.63 & 79.64, SD 7.74 & 11.33 and calculated't' value is 4.88 between urban and rural students on the basis of responses of causes of failure at Secondary level. Our calculated't' value is greater than table value at 0.01 level and 0.05 level (df 138, 0.01 level 2.58 and 0.05 level 1.96). Thus, it is evident that there is significant difference between urban and rural students' responses of causes of failure at Secondary level.

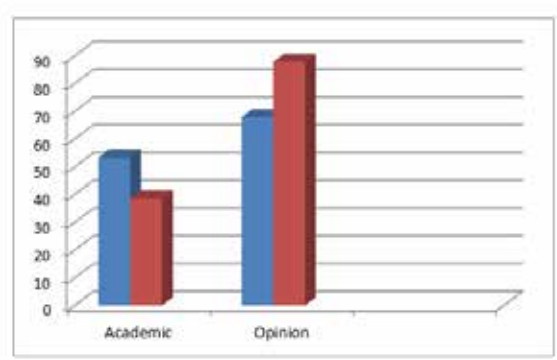

Fig-1(urban students' vs. rural students)

***Hypothesis No 2*:** There is no any opinions difference between urban & rural boys significantly.

Table: 4 Difference between urban boys & rural boys (Probable causes of failure in Secondary level)

Category	No. of students	Mean	SD	df	t	Remarks
Urban boys	150	75.34	5.25	68	9.35	NS
Rural boys	150	87.86	5.93			

Interpretation:
above Table 4.12 shows that the Mean 75.34 & 87.86, SD 5.25 & 5.93 and calculated't' value is 9.35 between urban and rural boys' on the basis of responses of causes of failure at Secondary level. Our calculated't' value is greater than table value at 0.01 level and 0.05 level (df 138, 0.01 level 2.58 and 0.05 level 1.96). Thus, it is evident that there is significant difference between urban and rural boys' responses of causes of failure at Secondary level.

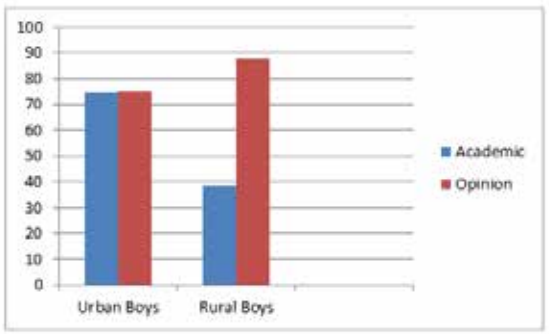

Fig-2(urban boys vs rural boys)

Hypothesis No 3: There is no any opinions difference between urban & rural girls significantly.

Table: 5 Difference between urban & rural girls' (Causes of failure at Secondary level)

Category	No. of students	Mean	SD	df	t	Remarks
Urban girls	150	67.91	8.11	68	1.69	NS
Rural girls	150	71.43	9.30			

Interpretation:
above Table 4.14 shows that the Mean 67.91 & 71.43, SD 8.11 & 9.30 and calculated't' value is 1.69 between urban and rural girls' on the basis of responses of causes of failure at Secondary level. Our calculated't' value is greater than table value at 0.01 level and 0.05 level (df 138, 0.01 level 2.58 and 0.05 level 1.96). Thus, it is evident that there is significant difference between urban and rural girls' responses of causes of failure at Secondary level.

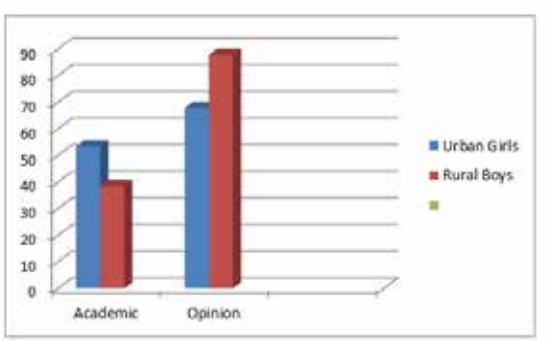

Fig-3 (urban girls' vs rural girls')

Hypothesis No 4: There is no any opinions difference between urban boys and rural girls significantly.

Table: 6 Difference between urban boys' & rural girls' (Probable causes of failure at Secondary level)

Category	No. of students	Mean	SD	df	t	Remarks
Urban boys	150	75.34	5.25	68	2.18	NS
Rural girls	150	71.43	9.30			

Interpretation:
above Table 4.16 shows that the Mean 75.34 & 71.43, SD 5.25 & 9.30 and calculated't' value is 2.18 between urban boys' and rural girls' on the basis of responses of causes of failure at Secondary level. Our calculated't' value is greater than table value at 0.01 level and 0.05 level (df 138, 0.01 level 2.58 and 0.05 level 1.96). Thus, it is evident that there is significant difference between urban boys' and rural girls' responses of causes of failure at Secondary level.

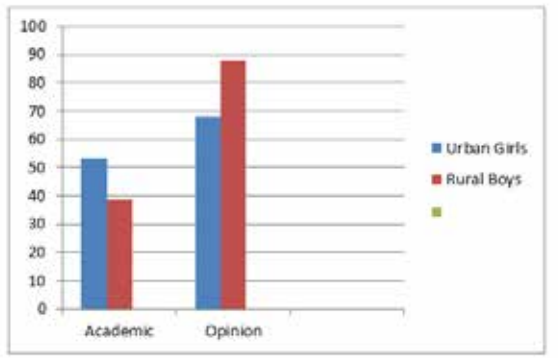

Fig-4(urban boys' vs rural girls')

Hypothesis No 5:There is no any opinion difference between urban girls and rural boys significantly

Table: 7 Difference between urban girls' & rural boys' (Probable causes of failure at Secondary level)

Category	No. of students	Mean	SD	df	t	Remarks
Urban girls	150	67.91	8.11	68	11.74	NS
Rural boys	150	87.86	5.93			

Interpretation:
above Table 4.18 shows that the Mean 67.91 & 87.86, SD 8.11 & 5.93 and calculated't' value is 11.74 between urban girls' and rural boys' on the basis of responses of causes of failure at Secondary level. Our calculated't' value is greater than table value at 0.01 level and 0.05 level (df 138, 0.01 level 2.58 and 0.05 level 1.96). Thus, it is evident that there is significant difference between urban girls' and rural boys' responses of causes of failure at Secondary level.

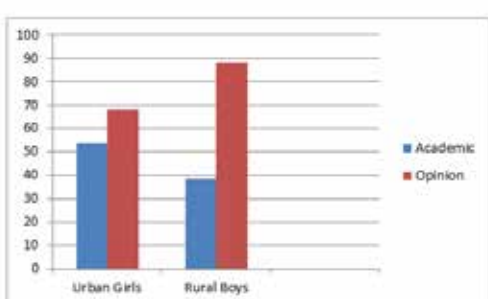

Fig-5(urban girls vs rural boys)
Comparison between urban girls and rural boys in science group

ANALYSIS OF DATA OBTAINED FROM THE OPINION OF THE STUDENTS.
The relative important of the causes of achievement difference at Secondary Examination on the basis of student's opinion.

Total thirty-two (32) causes are identified by the investigator to estimate the relative importance the causes for the different achievement at the Secondary level. 3-point rating scale was used to transform the qualitative opinion into quantitative scores.

Therefore the following trend was accepted;

1. Maximum score = 32 x 3 = 96
2. Minimum score = 32 x1 = 32
3. Average score =32 x 2 = 64

It was decided that if the summated rating score exceeds 64 then it will be expected that the opinion of the individual tend to the favorableness of the causes.

Table-8

The table showing the average score of the student's opinion on summated rating.

Category	Number	Mean of each Category	Mean from all Category
Urban Boys'	150	75.34	75.63
Urban Girls'	150	67.91	
Rural Boys'	150	87.86	
Rural Girls	150	71.43	

Interpretation:

The average scores exceed the cutting point score. Therefore the students viewed that the problems identified and presented in the questionnaire are responsible for different achievement at secondary level in west Bengal.

Both of the students' (urban & rural) have identified the following causes for the achievement different at Secondary level in West Bengal.

Table-9

Item no.	causes
1	Lack of laboratory in most of the schools at secondary level.
2	Science is given less importance at secondary level
5	No clarity between English words and their Bengali synonyms.
6	Pressure of many numbers of students at Secondary level.
7	Lack of infrastructure in most of the schools for teaching science lessons.
8	Most of the students giving importance on tuition at secondary level.
23	Ordinary standard text books used for teaching in classes
25	More priority given to memorizing subject without understanding it.

FINDINGS OF THE PRESENT STUDY:

Following are the findings of the present investigation:

- There is significant difference between urban and rural students' responses of causes of failure at Secondary level.
- There is significant difference between urban and rural boys' responses of causes of failure at Secondary level.
- Urban female & rural female students differ significantly in their responses of causes of failure at Secondary level.
- Urban male and rural female students differ significantly in their responses of causes of failure at Secondary level.
- Urban female and rural male students differ significantly in their responses of causes of failure at Secondary level.

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