

4.1 Introduction

One of the most important steps, in any research activity is to collect, organize and analyse the data. The results obtained from such an analysis are to be interpreted in terms of objectives of the study to reach conclusions about the population under study. The main purpose of analysing the data is to summarise the observations so that they yield answers to the research problem.

In the present study, an effort has been made to find out Attitude towards Educational Media of Principals, Teachers and Students and Utilisation of Educational Media according to Principals, by Teachers and according to Students.

The analysis of the results has been discussed in two ways:-

- 1) By calculating Frequency and Percentage.
- 2) By calculating Mean, SD and applying t-test. The analysis of results has been discussed as per the objectives of the study and hypotheses have been tested at 0 .05 level of significance.

OBJECTIVE No. 1:- To study the Attitude of Principals towards Educational Media at secondary school stage in relation to their board of the school, gender, age and teaching experience.

HYPOTHESIS No. 1.1:- There is no significant difference in the attitude of principals of CBSE and ICSE board schools towards educational media at secondary school stage.

Table 4.1

Frequency of responses given by Principals of CBSE and ICSE board on Attitude towards Educational Media at secondary school stage

Item No.	Board	Category			Total
		Favourable	Neutral	Unfavourable	
1-24	CBSE	361 (15)	43 (1.8)	76 (3.2)	480 (20)
	ICSE	379 (15.8)	32 (1.3)	69 (2.9)	480 (20)

Table No. 4.1 shows that the total number of responses given by Principals of CBSE board in the category of favourable, neutral and unfavourable for item no. 1-24 is 361, 43 and 76 respectively along with their average score as 15, 1.8 and 3.2 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Principals of ICSE board in the category of favourable, neutral and unfavourable for item no. 1-24 is 379, 32 and 69 respectively along with their average score as 15.8, 1.3 and 2.9 respectively on attitude towards educational media at secondary school stage.

Table 4.2

Significance of difference in the Attitude of Principals towards Educational Media with respect to their Board of School at secondary school stage

S. No.	Board	N	Mean	SD	<i>t-cr</i>
1	CBSE	20	98.65	21.13	0.01*
2	ICSE	20	98.05	17.02	

***Not significant at 0.05 level of significance**

Table No. 4.2 shows that the Mean and SD of CBSE and ICSE board Principals are 98.65 and 98.05 respectively and 21.13 and 17.02 respectively. After applying *t*-test, *t-cr* came out to be 0.01 for df 38 which is not significant at 0.05 level of significance. It means that there is no significant difference in the attitude of principals of CBSE and

ICSE board towards educational media at secondary school stage thus accepting the null hypothesis.

HYPOTHESIS No. 1.2:- There is no significant difference in the attitude of male and female principals towards educational media at secondary school stage.

Table 4.3

Frequency of responses given by Male and Female Principals on Attitude towards Educational Media at secondary school stage

Item No.	Gender	Category			Total
		Favourable	Neutral	Unfavourable	
1-24	Male	202 (8.4)	78 (3.3)	152 (6.3)	432 (18)
	Female	490 (20.4)	16 (0.7)	22 (0.9)	528 (22)

Table No. 4.3 shows that the total number of responses given by Male Principals in the category of favourable, neutral and unfavourable for item no. 1-24 is 202, 78 and 152 respectively along with their average score as 8.4, 3.3 and 6.3 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Female Principals in the category of favourable, neutral and unfavourable for item no. 1-24 is 490, 16 and 22 respectively along with their average score as 20.4, 0.7 and 0.9 respectively on attitude towards educational media at secondary school stage.

Table 4.4

Significance of difference in the Attitude of Male and Female Principals towards Educational Media at secondary school stage

S. No.	Gender	N	Mean	SD	t-cr
1	Male	18	84.08	29.71	2.87**
2	Female	22	104.46	5.41	

****Significant at 0.05 level of significance**

Table No. 4.4 shows that the Mean and SD of Male and Female Principals are 84.08 and 104.46 respectively and 29.71 and 5.41 respectively. After applying *t*-test, *t*-cr

came out to be 2.87 for df 38 which is significant at 0.05 level of significance. It means that Female principals have more favourable attitude towards educational media as compared to Male principals at secondary school stage, thus rejecting the null hypothesis.

HYPOTHESIS No. 1.3:- There is no significant difference in the attitude of principals in the age group of 21- 40 years and the principals in the age group of 41-60 years towards educational media at secondary school stage.

Table 4.5

Frequency of responses given by Principals in relation to their Age on Attitude towards Educational Media at secondary school stage

Item No.	Age (years)	Category			Total
		Favourable	Neutral	Unfavourable	
1-24	31-45	312 (13)	65 (2.7)	127 (5.3)	504 (21)
	46-60	414 (17.3)	10 (0.4)	32 (1.3)	399 (19)

Table No. 4.5 shows that the total number of responses given by Principals in the age group of 31-45 years in the category of favourable, neutral and unfavourable for item no. 1-24 is 312, 65 and 127 respectively along with their average score as 13, 2.7 and 5.3 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Principals in the age group of 46-60 years in the category of favourable, neutral and unfavourable for item no. 1-24 is 414, 10 and 32 respectively along with their average score as 17.3, 0.4 and 1.3 respectively on attitude towards educational media at secondary school stage.

Table 4.6

Significance of difference in the Attitude of Principals in the Age Group of 31-45 years and Principals in the Age Group of 46-60 years towards Educational Media at secondary school stage

S. No.	Age (years)	N	Mean	SD	<i>t</i> -cr
1	31-45	21	103.8	20.22	2.09**
2	46-60	19	91.52	16.84	

****Significant at 0.05 level of significance**

Table No. 4.6 shows that the Mean and SD of Principals in the age group of 31-45 and Principals in the age group of 46-60 is 103.8 and 91.52 respectively and 20.22 and 16.84 respectively. After applying *t*-test, *t*-cr came out to be 2.09 for df 38 which is significant at 0.05 level of significance. It means that attitude of Principals in the age group of 31-45 years is more favourable than the attitude of Principals in the age group of 46-60 years towards educational media at secondary school stage.

HYPOTHESIS No. 1.4:- There is no significant difference in the attitude of principals with a teaching experience of 1-20 years and the principals with a teaching experience of 21-40 years towards educational media at secondary school stage.

Table 4.7

Frequency of responses given by Principals in relation to their Teaching Experience on Attitude towards Educational Media at secondary school stage

Item No.	Teaching Experience (years)	Category			Total
		Favourable	Neutral	Unfavourable	
1-24	1-20	437 (18.2)	55 (2.3)	60 (2.5)	552 (23)
	21-40	313 (13.1)	15 (0.6)	80 (3.3)	408 (17)

Table No. 4.7 shows the total number of responses given by Principals with a teaching experience of 1-20 years in the category of favourable, neutral and unfavourable for

item no. 1-24 is 437, 55 and 60 respectively along with their average score as 18.2, 2.3 and 2.5 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Principals with a teaching experience of 21-40 years in the category of favourable, neutral and unfavourable for item no. 1-24 is 313, 15 and 80 respectively along with their average score as 13.1, 0.6 and 3.3 respectively on attitude towards educational media at secondary school stage.

Table 4.8

Significance of difference in the Attitude of Principals with Teaching Experience of 1-20 years and Principals with a Teaching Experience of 21-40 years towards Educational Media at secondary school stage

S. No.	Teaching Experience (years)	N	Mean	SD	<i>t-cr</i>
1	1-20	23	97.24	18.06	0.47*
2	21-40	17	100.2	20.84	

***Not significant at 0.05 level of significance**

Table No. 4.8 shows that the Mean and SD of Principals with a teaching experience of 1-20 years and Principals with a teaching experience of 21-40 years is 97.24 and 100.2 respectively and 18.06 and 20.84 respectively. After applying *t*-test, *t-cr* came out to be 0.47 for df 38 which is not significant at 0.05 level of significance. It means that there is no significant difference in the attitude of principals with a teaching experience of 1-20 years and the principals with a teaching experience of 21-40 years towards educational media at secondary school stage, thus accepting the null hypothesis.

INTERPRETATION

- 1) Attitude of Female principals is more favourable than that of Male principals towards educational media at secondary school stage

- 2) Attitude of Principals in the age group of 31-45 years is more favourable than that of Principals in the age group of 46-60 years towards educational media at secondary school stage.
- 3) There is no significant difference in the attitude of Principals towards educational media at secondary school stage in relation to their board of the school and teaching experience.

OBJECTIVE No. 2:- To study the utilization of Educational Media according to the Principals at secondary school stage in relation to their board of the school, gender, age and teaching experience.

HYPOTHESIS No. 2.1:- There is no significant difference in the utilization of educational media in CBSE and ICSE board school according to the principals at secondary school stage.

Table 4.9

Significance of difference in the Utilisation of Educational Media according to Principals with respect to their Board of School at secondary school stage

S. No.	Board	N	Mean	SD	<i>t-cr</i>
1	CBSE	20	52.60	6.93	0.59*
2	ICSE	20	51.15	8.63	

***Not significant at 0.05 level of significance**

Table No. 4.9 shows that the Mean and SD of CBSE and ICSE board Principals is 52.60 and 51.15 respectively and 6.93 and 8.63 respectively. After applying *t*-test, *t-cr* came out to be 0.59 for df 38 which is not significant at 0.05 level of significance. It means that there is no significant difference in the utilization of educational media

according to principals of CBSE and ICSE board at secondary school stage, thus accepting the null hypothesis.

HYPOTHESIS No. 2.2:- There is no significant difference in the utilization of educational media according to male and female principals at secondary school stage.

Table 4.10

Significance of difference in the Utilisation of Educational Media according to Male and Female Principals at secondary school stage

S. No.	Gender	N	Mean	SD	<i>t-cr</i>
1	Male	18	48.58	4.58	2.24**
2	Female	22	53.29	8.46	

****Significant at 0.05 level of significance**

Table No. 4.10 shows that the Mean and SD of Male and Female Principals are 48.58 and 53.29 respectively and 4.58 and 8.46 respectively. After applying *t*-test, *t-cr* came out to be 2.24 for df 38 which is significant at 0.05 level of significance. It means that utilization of any type of educational media is done more according to female principals as compared to male principals at secondary school stage.

HYPOTHESIS No. 2.3:- There is no significant difference in the utilization of educational media according to principals in the age group of 31-45 years and 46-60 years at secondary school stage.

Table 4.11

Significance of difference in the Utilisation of Educational Media according to the Principals in the Age Group of 31-45 years and Principals in the Age Group of 46-60 years at secondary school stage

S. No.	Age (years)	N	Mean	SD	<i>t-cr</i>
1	31-45	21	51.50	7.71	0.25*
2	46-60	19	52.13	7.95	

***Not significant at 0.05 level of significance**

Table No. 4.11 shows that the Mean and SD of Principals in the age group of 31-45 and Principals in the age group of 46-60 is 51.50 and 52.13 respectively and 7.71 and 7.95 respectively. After applying *t*-test, *t*-cr came out to be 0.25 for df 38 which is not significant at 0.05 level of significance. It means that there is no significant difference in the extent of utilization of educational media according to the principals in the age group of 21- 40 years and the principals in the age group of 41-60 years at secondary school stage and hence the null hypothesis is accepted.

HYPOTHESIS No. 2.4:- There is no significant difference in the utilization of educational media according to the principals with a teaching experience of 1-20 years and 21-40 years at secondary school stage.

Table 4.12

Significance of difference in the Utilisation of Educational Media according to Principals with Teaching Experience of 1-20 years and Principals with a Teaching Experience of 21-40 years at secondary school stage

S. No.	Teaching Experience (years)	N	Mean	SD	<i>t</i> -cr
1	1-20	23	49.88	8.77	2.56**
2	21-40	17	55.20	4.11	

****Significant at 0.05 level of significance**

Table No. 4.12 shows that the Mean and SD of Principals with a teaching experience of 1-20 years and Principals with a teaching experience of 21-40 years is 49.88 and 55.20 respectively and 8.77 and 4.11 respectively. After applying *t*-test, *t*-cr came out to be 2.56 for df 38 which is significant at 0.05 level of significance. It means that utilisation of any type of educational media is done more according to the principals with a

teaching experience of 21-40 years than the principals with a teaching experience of 1-20 years at secondary school stage.

INTERPRETATION

- 1) Utilisation of any type of educational media is done more according to female principals as compared to male principals at secondary school stage.
- 2) Utilisation of any type of educational media is done more according to the principals with a teaching experience of 21-40 years than the principals with a teaching experience of 1-20 years at secondary school stage.
- 3) There is no significant difference in the utilisation of educational media according to the Principals at secondary school stage in relation to their board of the school and age.

OBJECTIVE No. 3:- To study the extent of utilization of Overhead Projector, Computer and Smartclass in CBSE and ICSE board schools according to the Principals at secondary school stage.

HYPOTHESIS No. 3.1:- There is no significant difference in the extent of utilization of Overhead Projector and Computer in CBSE board schools according to the principals at secondary school stage.

Table 4.13

Significance of difference in the Extent of Utilisation of OHP and Computer in CBSE board school according to the Principals at secondary school stage

S. No.	Educational Media	Mean	SD	N	t-cr
1	OHP	19.30	1.63	20	1.17*
2	Computer	20.00	2.08	20	

***Not significant at 0.05 level of significance**

Table No. 4.13 shows that the Mean and SD of utilisation of OHP and Computer is 19.30 and 20.00 respectively and 1.63 and 2.08 respectively. After applying *t*-test, *t*-cr came out to be 1.17 for df 38 which is not significant at 0.05 level of significance. It means that there is no significant difference in the utilization of OHP and Computer according to the Principals of CBSE board school at secondary school stage thus accepting the null hypothesis.

HYPOTHESIS No. 3.2:- There is no significant difference in the extent of utilization of Computer and Smartclass in CBSE board schools according to the principals at secondary school stage.

Table 4.14

Significance of difference in the Extent of Utilisation of Computer and Smartclass in CBSE board school according to the Principals at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t</i> -cr
1	Computer	20	20.00	2.08	3.18**
2	Smartclass	20	14.30	7.71	

****Significant at 0.05 level of significance**

Table No. 4.14 shows that the Mean and SD of utilisation of Computer and Smartclass is 20.00 and 14.30 respectively and 2.08 and 7.71. After applying *t*-test, *t*-cr came out to be 3.18 for df 38 which is significant at 0.05 level of significance. It means that usage of Computer is more than the Smartclass according to the Principals of CBSE board school at secondary school stage.

HYPOTHESIS No. 3.3:- There is no significant difference in the extent of utilization of Smartclass and Overhead Projector in CBSE board schools according to the principals at secondary school stage.

Table 4.15

Significance of difference in the Extent of Utilisation of Smartclass and OHP in CBSE board school according to the Principals at secondary school stage

S. No.	Educational Media	N	Mean	SD	t-cr
1	Smartclass	20	14.30	7.71	2.84**
2	OHP	20	19.30	1.63	

****Significant at 0.05 level of significance**

Table No. 4.15 shows that the Mean and SD of utilisation of Smartclass and OHP is 14.30 and 19.30 respectively and 7.71 and 1.63 respectively. After applying *t*-test, *t*-cr came out to be 2.84 for df 38 which is significant at 0.05 level of significance. It means that usage of OHP is more than the Smartclass according to the Principals of CBSE board school at secondary school stage.

HYPOTHESIS No. 3.4:- There is no significant difference in the extent of utilization of Overhead Projector and Computer in ICSE board schools according to the principals at secondary school stage.

Table 4.16

Significance of difference in the Extent of Utilisation of OHP and Computer in ICSE board school according to the Principals at secondary school stage

S. No.	Educational Media	N	Mean	SD	t-cr
1	OHP	20	16.00	5.84	2.52**
2	Computer	20	19.60	2.52	

****Significant at 0.05 level of significance**

Table No. 4.16 shows that the Mean and SD of utilisation of OHP and is 16.00 and 19.60 respectively and 5.84 and 2.52 respectively. After applying *t*-test, *t*-cr came out to be 2.52 for df 38 which is significant at 0.05 level of significance. It means that usage

of Computer is more than the OHP according to the Principals of ICSE board school at secondary school stage.

HYPOTHESIS No. 3.5:- There is no significant difference in the extent of utilization of Computer and Smartclass in ICSE board schools according to the principals at secondary school stage.

Table 4.17

Significance of difference in the Extent of Utilisation of Computer and Smartclass in ICSE board school according to the Principals at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t-cr</i>
1	Computer	20	19.60	2.52	2.65**
2	Smartclass	20	15.55	6.37	

****Significant at 0.05 level of significance**

Table No. 4.17 shows that the Mean and SD of utilisation of Computer and Smartclass is 19.60 and 15.55 respectively and 2.52 and 6.37 respectively. After applying *t*-test, *t-cr* came out to be 2.65 for df 38 which is significant at 0.05 level of significance. It means that usage of Computer is more than the Smartclass according to the Principals of ICSE board school at secondary school stage.

HYPOTHESIS No. 3.6:- There is no significant difference in the extent of utilization of Smartclass and Overhead Projector in ICSE board schools according to the principals at secondary school stage.

Table 4.18

Significance of difference in the Extent of Utilisation of Smartclass and OHP in ICSE board school according to the Principals at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t-cr</i>
1	Smartclass	20	15.55	6.37	0.23*
2	OHP	20	16.00	5.84	

***Not significant at 0.05 level of significance**

Table No. 4.18 shows that the Mean and SD of utilisation of Smartclass and OHP is 15.55 and 16.00 respectively and 6.37 and 5.84 respectively. After applying *t*-test, *t-cr* came out to be 0.23 for df 38 which is not significant at 0.05 level of significance. It means that there is no significant difference in the extent of utilization of Smartclass and Overhead Projector in ICSE board school according to the Principals of ICSE board school at secondary school stage and hence null hypothesis is accepted.

INTERPRETATION:-

- 1) Usage of Computer is more than the Smartclass according to the Principals of CBSE board school at secondary school stage.
- 2) Usage of OHP is more than the Smartclass according to the Principals of CBSE board school at secondary school stage.
- 3) Usage of Computer is more than the Smartclass according to the Principals of CBSE and ICSE board school at secondary school stage.
- 5) There is no significant difference in the extent of utilization of OHP and Computer in CBSE and ICSE board according to the Principals of secondary school stage.
- 6) There is no significant difference in the extent of utilization of Computer and Smartclass in ICSE board school according to the Principals of secondary school stage.

7) There is no significant difference in the extent of utilization of Smartclass and OHP in ICSE board school according to the Principals of secondary school stage.

OBJECTIVE No. 4:- To study the Attitude of Teachers towards Educational Media at secondary school stage in relation to their board of the school, gender, age, teaching experience and teaching subject.

HYPOTHESIS No. 4.1:- There is no significant difference in the attitude of teachers of CBSE and ICSE board schools towards educational media at secondary school stage.

Table 4.19

Frequency of responses given by Teachers of CBSE and ICSE board on Attitude towards Educational Media at secondary school stage

Item No.	Board	Category			Total
		Favourable	Neutral	Unfavourable	
1-24	CBSE	1600 (66.7)	118 (4.9)	202 (8.4)	1920 (80)
	ICSE	1612 (67.2)	101 (4.2)	207 (8.6)	1920 (80)

Table No. 4.19 shows that the total number of responses given by Teachers of CBSE board in the category of favourable, neutral and unfavourable for item no. 1-24 is 1600, 118 and 202 respectively along with their average score as 66.7, 4.9 and 8.4 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Teachers of ICSE board in the category of favourable, neutral and unfavourable for item no. 1-24 is 1612, 101 and 207 respectively along with their average score as 67.2, 4.2 and 8.6 respectively on attitude towards educational media at secondary school stage.

Table 4.20

Significance of difference in the Attitude of Teachers towards Educational Media with respect to their Board of School at secondary school stage

S. No.	Board	N	Mean	SD	t-value
1	CBSE	80	100.23	11.05	0.3*
2	ICSE	80	99.65	13.54	

***Not significant at 0.05 level of significance**

Table No. 4.20 shows that the Mean and SD of CBSE and ICSE board Teachers are 100.23 and 99.65 respectively and 11.05 and 13.54 respectively. After applying *t*-test, *t*-value came out to be 0.3 for df 158 which is not significant at 0.05 level of significance. It means that there is no significant difference in the attitude of teachers of CBSE and ICSE board towards educational media at secondary school stage thus accepting the null hypothesis.

HYPOTHESIS No. 4.2:- There is no significant difference in the attitude of male and female teachers towards educational media at secondary school stage

Table 4.21

Frequency of responses given by Male and Female Teachers on Attitude towards Educational Media at secondary school stage

Item No.	Gender	Category			Total
		Favourable	Neutral	Unfavourable	
1-24	Male	1094 (45.6)	263 (10.9)	323 (13.5)	1680 (70)
	Female	2062 (85.9)	32 (1.3)	66 (2.8)	2160 (90)

Table No. 4.21 shows that the total number of responses given by Male Teachers in the category of favourable, neutral and unfavourable for item no. 1-24 is 1094, 263 and 323 respectively along with their average score as 45.6, 10.9 and 13.5 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Female Teachers in the category of favourable, neutral and

unfavourable for item no. 1-24 is 2062, 32 and 66 respectively along with their average score as 85.9, 1.3 and 2.8 respectively on attitude towards educational media at secondary school stage.

Table 4.22

Significance of difference in the Attitude of Male and Female Teachers towards Educational Media at secondary school stage

S. No.	Gender	N	Mean	SD	<i>t</i> -value
1	Male	70	95.56	14.94	2.98**
2	Female	90	101.81	10.54	

****Significant at 0.05 level of significance**

Table No. 4.22 shows that the Mean and SD of Male and Female Teachers are 95.56 and 101.81 respectively and 14.94 and 10.54 respectively. After applying *t*-test, *t*-value came out to be 2.98 for df 158 which is significant at 0.05 level of significance. It means that Female teachers have more favourable attitude towards educational media as compared to Male teachers at secondary school stage.

HYPOTHESIS No. 4.3:- There is no significant difference in the attitude of teachers in the age group of 21-40 years and teachers in the age group of 41-60 years towards educational media at secondary school stage.

Table 4.23

Frequency of responses given by Teachers in relation to their Age on Attitude towards Educational Media at secondary school stage

Item No.	Age (years)	Category			Total
		Favourable	Neutral	Unfavourable	
1-24	21-40	1771 (73.8)	87 (3.6)	182 (7.6)	2040 (85)
	41-60	1496 (62.3)	109 (4.6)	195 (8.1)	1875 (75)

Table No. 4.23 shows that the total number of responses given by Teachers in the age group of 21-40 years in the category of favourable, neutral and unfavourable for item

no. 1-24 is 1771, 87 and 182 respectively along with their average score as 73.8, 3.6 and 7.6 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Teachers in the age group of 41-60 years in the category of favourable, neutral and unfavourable for item no. 1-24 is 1496, 109 and 195 respectively along with their average score as 62.3, 4.6 and 8.1 respectively on attitude towards educational media at secondary school stage.

Table 4.24

Significance of difference in the Attitude of Teachers in the Age Group of 21-40 years and Teachers in the Age Group of 41-60 years towards Educational Media at secondary school stage

S. No.	Age (years)	N	Mean	SD	<i>t</i> -value
1	21-40	85	100.35	9.43	0.44*
2	41-60	75	99.47	14.99	

***Not significant at 0.05 level of significance**

Table No. 4.24 shows that the Mean and SD of Teachers in the age group of 21-40 years and Teachers in the age group of 41-60 years is 100.35 and 99.47 respectively and 9.43 14.99. After applying *t*-test, *t*-value came out to be 0.44 for df 158 which is not significant at 0.05 level of significance. It means that there is no significant difference in the attitude of teachers in the age group of 21-40 years and teachers in the age group of 41-60 years towards educational media at secondary school stage thus accepting the null hypothesis.

HYPOTHESIS No. 4.4:- There is no significant difference in the attitude of teachers with a teaching experience of 1-15 years and teachers with a teaching experience of 16-30 years towards educational media at secondary school stage.

Table 4.25

Frequency of responses given by Teachers in relation to their Teaching Experience on Attitude towards Educational Media at secondary school stage

Item No.	Teaching Experience (years)	Category			Total
		Favourable	Neutral	Unfavourable	
1-24	1-15	2114 (88.1)	50 (2.1)	44 (1.8)	2208 (92)
	16-30	1124 (46.8)	212 (8.8)	298 (12.4)	1496 (68)

Table No. 4.25 shows that the total number of responses given by Teachers with a teaching experience of 1-15 years in the category of favourable, neutral and unfavourable for item no. 1-24 is 2114, 50 and 44 respectively along with their average score as 88.1, 2.1 and 1.8 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Teachers with a teaching experience of 16-30 years in the category of favourable, neutral and unfavourable for item no. 1-24 is 1124, 212 and 298 respectively along with their average score as 46.8, 8.8 and 12.4 respectively on attitude towards educational media at secondary school stage.

Table 4.26

Significance of difference in the Attitude of Teachers with Teaching Experience of 1-15 years and Teachers with a Teaching Experience of 16-30 years towards Educational Media at secondary school stage

S. No.	Teaching Experience (years)	N	Mean	SD	t-value
1	1-15	92	100.5	10.73	1.03*
2	16-30	68	98.13	16.47	

*Not significant at 0.05 level of significance

Table No. 4.26 shows that the Mean and SD of Teachers with a teaching experience of 1-15 years and Teachers with a teaching experience of 16-30 years is 100.5 and 98.13 respectively and 10.73 and 16.47 respectively. After applying *t*-test, *t*-value came out to be 1.03 for df 158 which is not significant at 0.05 level of significance. It means that there is no significant difference in the attitude of teachers with a teaching experience of 1-15 years and teachers with a teaching experience of 16-30 years towards educational media at secondary school stage and hence null hypothesis is accepted.

HYPOTHESIS No. 4.5:- There is no significant difference in the attitude of teachers teaching science subjects and teachers teaching arts subjects towards educational media at secondary school stage.

Table 4.27

Frequency of responses given by Teachers in relation to their Teaching Subject on Attitude towards Educational Media at secondary school stage

Item No.	Teaching Subject	Category			Total
		Favourable	Neutral	Unfavourable	
1-24	Science	1753 (73.1)	78 (3.3)	159 (6.6)	1992 (83)
	Arts	1506 (62.8)	128 (5.3)	214 (8.9)	1848 (77)

Table No. 4.27 shows that the total number of responses given by Teachers teaching Science subjects in the category of favourable, neutral and unfavourable for item no. 1-24 is 1753, 78 and 159 respectively along with their average score as 73.1, 3.3 and 6.6 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Teachers teaching Arts subjects in the category of favourable, neutral and unfavourable for item no. 1-25 is 1506, 128 and 214 respectively along with their average score as 62.8, 5.3 and 8.9 respectively on attitude towards educational media at secondary school stage.

Table 4.28

Significance of difference in the Attitude of Teachers Teaching Science and Teachers Teaching Arts towards Educational Media at secondary school stage

S. No.	Teaching Subject	N	Mean	SD	t-value
1	Science	83	101.37	10.5	2.54**
2	Arts	77	96.39	13.85	

****Significant at 0.05 level of significance**

Table No. 4.28 shows that the Mean and SD of Teachers teaching Science subjects and Teachers teaching Arts subjects is 101.37 and 96.39 respectively and 10.5 and 13.85 respectively. After applying *t*-test, *t*-value came out to be 2.54 for df 158 which is not significant at 0.05 level of significance. It means that attitude of teachers teaching science subjects is more favourable than teachers teaching arts subjects towards educational media at secondary school stage.

INTERPRETATION:-

- 1) Attitude of Female teachers is more favourable than that of Male teachers towards educational media at secondary school stage.
- 2) Attitude of teachers teaching science subjects is more favourable than teachers teaching arts subjects towards educational media at secondary school stage.
- 3) There is no significant difference in the attitude of teachers towards educational media at secondary school stage in relation to their board of the school, age and teaching experience.

OBJECTIVE No. 5:- To study the utilization of Educational Media by the Teachers at secondary school stage in relation to their board of the school, gender, age, teaching experience and teaching subject.

HYPOTHESIS No. 5.1:- There is no significant difference in the utilization of educational media by the teachers in CBSE and ICSE board school at secondary school stage.

Table 4.29

Significance of difference in the Utilisation of Educational Media by Teachers with respect to their Board of School at secondary school stage

S. No.	Board	N	Mean	SD	<i>t</i> -value
1	CBSE	80	65.74	21.12	1.2*
2	ICSE	80	62.24	15.40	

***Not significant at 0.05 level of significance**

Table No. 4.29 shows that the Mean and SD of CBSE and ICSE board Teachers is 65.74 and 62.24 respectively and 21.12 and 15.40 respectively. After applying *t*-test, *t*-value came out to be 1.2 for df 158 which is not significant at 0.05 level of significance. It means that there is no significant difference in the utilization of educational media by teachers of CBSE and ICSE board at secondary school stage thus accepting the null hypothesis.

HYPOTHESIS No. 5.2:- There is no significant difference in the utilization of educational media by male and female teachers at secondary school stage.

Table 4.30

Significance of difference in the Utilisation of Educational Media by Male and Female Teachers at secondary school stage

S. No.	Gender	N	Mean	SD	<i>t</i> -value
1	Male	70	67.52	18.49	1.72*
2	Female	90	62.47	18.39	

***Not significant at 0.05 level of significance**

Table No. 4.30 shows that the Mean and SD of Male and Female Teachers are 67.52 and 62.47 respectively and 18.49 and 18.39 respectively. After applying *t*-test, *t*-value came out to be 1.72 for df 158 which is not significant at 0.05 level of significance. It means that there is no significant difference in the utilization of educational media by male and female teachers at secondary school stage.

HYPOTHESIS No. 5.3:- There is no significant difference in the utilization of educational media by teachers in the age group of 21-40 years and teachers in the age group of 41-60 years at secondary school stage.

Table 4.31

Significance of difference in the Utilisation of Educational Media by Teachers in the Age Group of 21-40 years and Teachers in the Age Group of 41-60 years at secondary school stage

S. No.	Age (years)	N	Mean	SD	<i>t</i> -value
1	21-40	85	65.12	20.77	0.84*
2	41-60	75	62.71	15.58	

***Not significant at 0.05 level of significance**

Table No. 4.31 shows that the Mean and SD of Teachers in the age group of 21-40 years Teachers in the age group of 41-60 years is 65.12 and 62.71 respectively and 20.77 and 15.58 respectively. After applying *t*-test, *t*-value came out to be 0.84 for df

158 which is not significant at 0.05 level of significance. It means that there is no significant difference in the utilization of educational media by teachers in the age group of 21-40 years and teachers in the age group of 41-60 years at secondary school stage and hence null hypothesis is accepted.

HYPOTHESIS No. 5.4:- There is no significant difference in the utilization of educational media by teachers with a teaching experience of 1-15 years and teachers with a teaching experience of 16-30 years at secondary school stage.

Table 4.32

Significance of difference in the Utilisation of Educational Media by Teachers with Teaching Experience of 1-15 years and Teachers with a Teaching Experience of 16-30 years at secondary school stage

S. No.	Teaching Experience (years)	N	Mean	SD	t-value
1	1-15	92	66.40	18.69	3.72**
2	16-30	68	56.24	15.78	

****Significant at 0.05 level of significance**

Table No. 4.32 shows that the Mean and SD of Teachers with a teaching experience of 1-15 years Teachers with a teaching experience of 16-30 years is 66.40 and 56.24 respectively and 18.69 and 15.78. After applying *t*-test, *t*-value came out to be 3.72 for df 158 which is significant at 0.05 level of significance. It means that usage of any type of educational media is done more by the teachers with a teaching experience of 1-15 years than the teachers with a teaching experience of 16-30 years at secondary school stage.

HYPOTHESIS No. 5.5:- There is no significant difference in the utilization of educational media by teachers teaching science subjects and teachers teaching arts subjects at secondary school stage.

Table 4.33

Significance of difference in the Utilisation of Educational Media by Teachers Teaching Science and Teachers Teaching Art at secondary school stage

S. No.	Teaching Subject	N	Mean	SD	t-value
1	Science	84	67.14	16.89	2.27**
2	Arts	76	60.50	19.67	

****Significant at 0.05 level of significance**

Table No. 4.33 shows that the Mean and SD of Teachers teaching Science subject and Teachers teaching Arts subjects is 67.14 and 60.50 respectively and 16.89 and 19.67. After applying *t*-test, *t*-value came out to be 2.27 for df 158 which is significant at 0.05 level of significance. It means that usage of any type of educational media is done more by the teachers who teach science subjects as compared to the teachers who teach arts subjects at secondary school stage.

INTERPRETATION:-

- 1) Usage of any type of educational media is done more by the teachers with a teaching experience of 1-15 years than the teachers with a teaching experience of 16-30 years at secondary school stage.
- 2) Usage of any type of educational media is done more by the teachers who teach science subjects as compared to the teachers who teach arts subjects at secondary school stage.

- 3) There is no significant difference in the utilisation of educational media by teachers at secondary school stage in relation to their board of school, gender and age.

OBJECTIVE NO.6:- To study the extent of utilization of Overhead Projector, Computer and Smartclass in CBSE and ICSE board schools by the Teachers at secondary school stage.

HYPOTHESIS No. 6.1:- There is no significant difference in the extent of utilization of Overhead Projector and Computer by the teachers in CBSE board schools at secondary school stage.

Table 4.34

Significance of difference in the Extent of Utilisation of OHP and Computer in CBSE board school by Teachers at secondary school stage

S. No.	Educational Media	N	Mean	SD	t-value
1	OHP	80	18.79	10.66	5.78**
2	Computer	80	26.54	5.51	

****Significant at 0.05 level of significance**

Table No. 4.34 shows that the Mean and SD of utilisation of OHP and Computer is 18.79 and 26.54 respectively and 10.66 and 5.51 respectively. After applying *t*-test, *t*-value came out to be 5.78 for df 158 which is significant at 0.05 level of significance. It means that use of Computer is more by the Teachers of CBSE board school as compared to the OHP at secondary school stage.

HYPOTHESIS No. 6.2:- There is no significant difference in the extent of utilization of Computer and Smartclass in CBSE board schools by teachers at secondary school stage.

Table 4.35

Significance of difference in the Extent of Utilisation of Computer and Smartclass in CBSE board school by Teachers at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t</i> -value
1	Computer	80	26.54	5.51	3.53**
2	Smartclass	80	22.23	9.36	

****Significant at 0.05 level of significance**

Table No. 4.35 shows that the Mean and SD of utilisation of Computer and Smartclass is 26.54 and 22.23 respectively and 5.51 and 9.36 respectively. After applying *t*-test, *t*-value came out to be 3.53 for df 158 which is significant at 0.05 level of significance. It means that usage of Computer is more than the Smartclass by Teachers of CBSE board school at secondary school stage.

HYPOTHESIS No. 6.3:- There is no significant difference in the extent of utilization of Smartclass and Overhead Projector in CBSE board schools by teachers at secondary school stage.

Table 4.36

Significance of difference in the Extent of Utilisation of Smartclass and OHP in CBSE board school by Teachers at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t</i> -value
1	Smartclass	80	22.23	9.36	2.16**
2	OHP	80	18.79	10.66	

****Significant at 0.05 level of significance**

Table No. 4.36 shows that the Mean and SD of utilisation of Smartclass and OHP is 22.23 and 18.79 respectively and 9.36 and 10.66 respectively. After applying *t*-test, *t*-value came out to be 2.16 for df 158 which is significant at 0.05 level of significance. It

means that usage of Smartclass is more than the OHP by Teachers of CBSE board school at secondary school stage.

HYPOTHESIS No. 6.4:- There is no significant difference in the extent of utilization of Overhead Projector and Computer in ICSE board schools by teachers at secondary school stage.

Table 4.37

Significance of difference in the Extent of Utilisation of OHP and Computer in ICSE board school by Teachers at secondary school stage

S. No.	Educational Media	N	Mean	SD	t-value
1	OHP	80	16.10	9.93	6.72**
2	Computer	80	24.50	5.15	

****Significant at 0.05 level of significance**

Table No. 4.37 shows that the Mean and SD of utilisation of OHP and Computer is 16.10 and 24.50 respectively and 9.93 and 5.15 respectively. After applying *t*-test, *t*-value came out to be 6.72 for df 158 which is significant at 0.05 level of significance. It means that usage of Computer is more than the OHP by the Teachers of ICSE board school at secondary school stage.

HYPOTHESIS No. 6.5:- There is no significant difference in the extent of utilization of Computer and Smartclass in ICSE board schools by teachers at secondary school stage.

Table 4.38

Significance of difference in the Extent of Utilisation of Computer and Smartclass in ICSE board school by Teachers at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t</i> -value
1	Computer	80	24.50	5.15	2.27**
2	Smartclass	80	21.93	8.68	

****Significant at 0.05 level of significance**

Table No. 4.38 shows that the Mean and SD of utilisation of Computer and Smartclass is 24.50 and 21.93 respectively and 5.15 and 8.68 respectively. After applying *t*-test, *t*-value came out to be 2.27 for df 158 which is significant at 0.05 level of significance. It means that usage of Computer is more than the Smartclass by teachers of ICSE board school at secondary school stage.

HYPOTHESIS No. 6.6:- There is no significant difference in the extent of utilization of Smartclass and Overhead Projector in ICSE board schools by teachers at secondary school stage.

Table 4.39

Significance of difference in the Extent of Utilisation of Smartclass and OHP in ICSE board school by Teachers at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t</i> -value
1	Smartclass	80	21.93	8.68	3.97**
2	OHP	80	16.10	9.93	

****Significant at 0.05 level of significance**

Table No. 4.39 shows that the Mean and SD of utilisation of Smartclass and OHP is 21.93 and 16.10 respectively and 8.68 and 9.93 respectively. After applying *t*-test, *t*-value came out to be 3.97 for df 158 which is significant at 0.05 level of significance. It

means that use of Smartclass is more by the teachers as compared to the OHP in ICSE board school at secondary school stage.

DISCUSSION:-

- 1) Usage of Computer is more than the Smartclass and OHP by the Teachers of secondary school stage.
- 2) Usage of Smartclass is more than the OHP by Teachers of secondary school stage.
- 3) Usage of Computer is more than OHP by teachers of CBSE and ICSE board at secondary school stage.
- 4) Usage of Computer is more than Smartclass by teachers of CBSE board school at secondary school stage.
- 5) Usage of Smartclass is more than OHP by teachers of ICSE board at secondary school stage.

OBJECTIVE No.7:- To study the competence level of Teachers in using educational media at secondary school stage in relation to their board of the school, gender, age, teaching experience and teaching subject.

HYPOTHESIS No. 7.1:- There is no significant difference in the competence level of teachers in using educational media of CBSE and ICSE board school at secondary school stage.

Table 4.40

Significance of difference in the Competence Level of Teachers in using Educational Media with respect to their Board of School at secondary school stage

S. No.	Board	N	Mean	SD	<i>t</i> -value
1	CBSE	80	13.03	4.09	0.03*
2	ICSE	80	13.05	3.73	

***Not significant at 0.05 level of significance**

Table No. 4.40 shows that the Mean and SD of CBSE and ICSE board Teachers is 13.03 and 13.05 respectively and 4.09 and 3.73 respectively. After applying *t*-test, *t*-value came out to be 0.03 for df 158 which is not significant at 0.05 level of significance. It means that there is no significant difference in the competence level of teachers in using educational media of CBSE and ICSE board school at secondary school stage.

HYPOTHESIS No. 7.2:- There is no significant difference in the competence level of male and female teachers in using educational media at secondary school stage.

Table 4.41

Significance of difference in the Competence Level of Male and Female Teachers in using Educational Media at secondary school stage

S. No.	Gender	N	Mean	SD	<i>t</i> -value
1	Male	70	13.65	3.93	1.4*
2	Female	90	12.78	3.88	

***Not significant at 0.05 level of significance**

Table No. 4.41 shows that the Mean and SD of Male and Female Teachers are 13.65 and 12.78 respectively and 3.93 and 3.88 respectively. After applying *t*-test, *t*-value came out to be 1.4 for df 158 which is not significant at 0.05 level of significance. It means that there is no significant difference in the competence level of male and female teachers in using educational media at secondary school stage.

HYPOTHESIS No. 7.3:- There is no significant difference in the competence level of teachers in using educational media who are in the age group of 21-40 years and teachers in the age group of 41-60 years at secondary school stage.

Table 4.42

Significance of difference in the Competence Level of Teachers in using Educational Media who are in the Age Group of 21-40 years and Teachers in the Age Group of 41-60 years at secondary school stage

S. No.	Age (years)	N	Mean	SD	t-value
1	21-40	85	13.29	4.28	0.87*
2	41-60	75	12.75	3.43	

***Not significant at 0.05 level of significance**

Table No. 4.42 shows that the Mean and SD of Teachers in the age group of 21-40 years and Teachers in the age group of 41-60 years is 13.29 and 12.75 respectively and 4.28 and 3.43 respectively. After applying *t*-test, *t*-value came out to be 0.87 for df 158 which is not significant at 0.05 level of significance. It means that there is no significant difference in the competence level of teachers in using educational media who are in the age group of 21-40 years and teachers in the age group of 41-60 years at secondary school stage.

HYPOTHESIS No. 7.4:- There is no significant difference in the competence level of teachers in using educational media who have a teaching experience of 1-15 years and 16-30 years at secondary school stage.

Table 4.43

Significance of difference in the Competence Level of Teachers in using Educational Media with a Teaching Experience of 1-15 years and Teachers with a Teaching Experience of 16-30 years at secondary school stage

S. No.	Teaching Experience (years)	N	Mean	SD	t-value
1	1-15	92	13.41	3.92	2.57**
2	16-30	68	11.84	3.65	

****Significant at 0.05 level of significance**

Table No. 4.43 shows that the Mean and SD of Teachers with a teaching experience of 1-15 years and Teachers with a teaching experience of 16-30 years is 13.41 and 11.84 respectively and 3.92 and 3.65 respectively. After applying *t*-test, *t*-value came out to be 2.57 for df 158 which is significant at 0.05 level of significance. It means that competence level of using educational media of teachers with a teaching experience of 1-15 years is more than that of teachers with a teaching experience of 16-30 years at secondary school stage.

HYPOTHESIS No. 7.5:- There is no significant difference in the competence level of teachers in using educational media who teach science subjects and those who teach arts subjects at secondary school stage.

Table 4.44

Significance of difference in the Competence Level of Teachers in using Educational Media who are Teaching Science subject and Teachers Teaching Arts subject at secondary school stage

S. No.	Teaching Subject	N	Mean	SD	t-value
1	Science	84	14.10	3.93	3.78**
2	Arts	76	11.87	3.55	

****Significant at 0.05 level of significance**

Table No. 4.44 shows that the Mean and SD of Teachers teaching Science subjects and Teachers teaching Arts subjects is 14.10 and 11.87 respectively and 3.93 and 3.55 respectively. After applying *t*-test, *t*-value came out to be 3.78 for *df* 158 which is significant at 0.05 level of significance. It means that competence level of using educational media of teachers teaching Science subjects is more than that of teachers teaching Arts subjects at secondary school stage.

INTERPRETATION:-

- 1) Competence level of using educational media of teachers with a teaching experience of 1-15 years is more than that of teachers with a teaching experience of 16-30 years at secondary school stage.
- 2) Competence level of using educational media of teachers teaching Science subjects is more than that of teachers teaching Arts subjects at secondary school stage.
- 3) There is no significant difference in the competence level of teachers in using educational media at secondary school stage with respect to their board of school, gender and age.

OBJECTIVE No. 8:- To study the Attitude of students towards Educational Media at secondary school stage in relation to their board of the school and gender.

HYPOTHESIS No. 8.1:- There is no significant difference in the attitude of students of CBSE and ICSE board students towards educational media at secondary school stage.

Table 4.45

Frequency of responses given by Students of CBSE and ICSE board on Attitude towards Educational Media at secondary school stage

Item No.	Board	Category			Total
		Favourable	Neutral	Unfavourable	
1-28	CBSE	12306 (439.5)	2245 (80.2)	2247 (80.3)	16800 (600)
	ICSE	11885 (424.5)	2526 (90.2)	2389 (85.3)	16800 (600)

Table No. 4.45 show that the total number of responses given by Students of CBSE board in the category of favourable, neutral and unfavourable for item no. 1-28 is 12306, 2245 and 2247 respectively along with their average score as 439.5, 80.2 and 80.3 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Students of ICSE board in the category of favourable, neutral and unfavourable for item no. 1-28 is 11885, 2526 and 2389 respectively along with their average score as 424.5, 90.2 and 85.3 respectively on attitude towards educational media at secondary school stage.

Table 4.46

Significance of difference in the Attitude of Students towards Educational Media with respect to their Board of School at secondary school stage

S. No.	Board	N	Mean	SD	t-value
1	CBSE	600	111.99	14.95	2.01**
2	ICSE	600	110.20	16.13	

****Significant at 0.05 level of significance**

Table No. 4.46 shows that the Mean and SD of CBSE and ICSE board Students is 111.99 and 110.20 respectively and 14.95 and 16.13 respectively. After applying *t*-test, *t*-value came out to be 2.01 for df 1118 which is significant at 0.05 level of

significance. It means that attitude of CBSE board students is more favourable than ICSE board students towards educational media at secondary school stage.

HYPOTHESIS No. 8.2:- There is no significant difference in the attitude of boys and girls towards educational media of secondary school stage.

Table 4.47

Frequency of responses given by Boys and Girls on Attitude towards Educational Media at secondary school stage

Item No.	Gender	Category			Total
		Favourable	Neutral	Unfavourable	
1-28	Boys	11963 (427.3)	2374 (84.8)	2463 (87.9)	16800 (600)
	Girls	12228 (436.7)	2397 (85.6)	2175 (77.7)	16800 (600)

Table No. 4.47 shows that the total number of responses given by Boys in the category of favourable, neutral and unfavourable for item no. 1-28 is 11963, 2374 and 2463 respectively along with their average score as 427.3, 85.8 and 87.9 respectively on attitude towards educational media at secondary school stage. The total number of responses given by Girls in the category of favourable, neutral and unfavourable for item no. 1-28 is 12228, 2397 and 2175 respectively along with their average score as 436.7, 85.6 and 77.7 respectively on attitude towards educational media at secondary school stage.

Table 4.48

Significance of difference in the Attitude of Boys and Girls towards Educational Media at secondary school stage

S. No.	Gender	N	Mean	SD	t-value
1	Boys	600	111.19	15.60	0.21*
2	Girls	600	111.00	15.35	

*Not significant at 0.05 level of significance

Table No. 4.48 shows that the Mean and SD of Boys and Girls is 111.19 and 111.00 respectively and 15.60 and 15.35 respectively. After applying *t*-test, *t*-value came out to be 0.21 for df 1118 which is not significant at 0.05 level of significance. It means that there is no significant difference in the attitude of boys and girls towards educational media of secondary school stage.

INTERPRETATION:-

- 1) Attitude of boys of CBSE Board is more favourable than that of boys of ICSE Board towards educational media at secondary school stage.
- 2) There is no significant difference in the attitude of Boys and Girls towards educational media at secondary school stage.
- 3) There is no significant difference in the attitude of students of CBSE and ICSE board school.

OBJECTIVE No.9:- To study the utilization of Educational Media according to the Students at secondary school stage in relation to their board of school and gender.

HYPOTHESIS No. 9.1:- There is no significant difference in the utilization of educational media in CBSE and ICSE board school according to the students at secondary school stage.

Table 4.49

Significance of difference in the Utilisation of Educational Media according to Students with respect to their Board of Institution at secondary school stage

S. No.	Board	N	Mean	SD	<i>t</i> -value
1	CBSE	600	53.82	18.23	2.28**
2	ICSE	600	51.50	17.23	

****Significant at 0.05 level of significance**

Table No. 4.49 shows that the Mean and SD of CBSE and ICSE board Students is 53.82 and 51.50 respectively and is 18.23 and 17.23 respectively. After applying *t*-test, *t*-value came out to be 2.28 for df 1118 which is significant at 0.05 level of significance. It means that according to students usage of any type of educational media is more in CBSE board schools as compared to ICSE board schools at secondary school stage.

HYPOTHESIS No. 9.2:- There is no significant difference in the utilization of educational media according to boys and girls at secondary school stage.

Table 4.50

Significance of difference in the Utilisation of Educational Media according to Boys and Girls of secondary school stage

S. No.	Gender	N	Mean	SD	<i>t</i> -value
1	Boy	600	55.69	17.12	6.00**
2	Girl	600	49.63	17.90	

****Significant at 0.05 level of significance**

Table No. 4.50 shows that the Mean and SD of Male and Female Students are 55.69 and 49.63 respectively and 17.12 and 17.90 respectively. After applying *t*-test, *t*-value came out to be 6.00 for df 1118 which is significant at 0.05 level of significance. This means that usage of any type of educational media is more according to the boys as compared to girls at secondary school stage.

INTERPRETATION:-

- 1) According to students usage of any type of educational media is more in CBSE board schools as compared to ICSE board schools at secondary school stage.
- 2) Usage of any type of educational media is more according to the boys as compared to girls at secondary school stage.

OBJECTIVE No.10:- To study the extent of utilization of Overhead Projector, Computer and Smartclass in CBSE and ICSE board schools according to the students at secondary school stage.

HYPOTHESIS No. 10.1:- There is no significant difference in the extent of utilization of Overhead Projector and Computer in CBSE board schools according to the students at secondary school stage.

Table 4.51

Significance of difference in the Extent of Utilisation of OHP and Computer in CBSE board school according to the Students at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t</i> -value
1	OHP	600	14.79	9.57	10.73**
2	Computer	600	20.26	8.15	

****Significant at 0.05 level of significance**

Table No. 4.51 shows that the Mean and SD of utilisation of OHP and Computer is 14.79 and 20.26 respectively and 9.57 and 8.15. After applying *t*-test, *t*-value came out to be 10.73 for df 1118 which is significant at 0.05 level of significance. It means that usage of computer is more as compared to OHP according to the Students of CBSE board school at secondary school stage.

HYPOTHESIS No. 10.2:- There is no significant difference in the extent of utilization of Computer and Smartclass in CBSE board schools according to the students at secondary school stage.

Table 4.52

Significance of difference in the Extent of Utilisation of Computer and Smartclass in CBSE board school according to the Students at secondary school stage

S. No.	Educational Media	N	Mean	SD	t-value
1	Computer	600	20.26	8.15	3.02**
2	Smartclass	600	18.81	8.51	

****Significant at 0.05 level of significance**

Table No. 4.52 shows that the Mean and SD of utilisation of Computer and Smartclass is 20.26 and 18.81 respectively and 8.15 and 8.51 respectively. After applying *t*-test, *t*-value came out to be 3.02 for df 1118 which is significant at 0.05 level of significance. It means that usage of Computer is more than the Smartclass according to the Students of CBSE board school at secondary school stage.

HYPOTHESIS No. 10.3:- There is no significant difference in the extent of utilization of Smartclass and Overhead Projector in CBSE board schools according to the students at secondary school stage.

Table 4.53

Significance of difference in the Extent of Utilisation of Smartclass and OHP in CBSE board school according to the Students at secondary school stage

S. No.	Educational Media	N	Mean	SD	t-value
1	Smartclass	600	18.81	8.51	7.73**
2	OHP	600	14.79	9.57	

****Significant at 0.05 level of significance**

Table No. 4.53 shows that the Mean and SD of utilisation of Smartclass and OHP is 18.81 and 14.79 respectively and 8.51 and 9.57 respectively. After applying *t*-test, *t*-value came out to be 7.73 for df 1118 which is significant at 0.05 level of significance.

It means that usage of usage of Smartclass is more as compared to OHP according to the Students of CBSE board school at secondary school stage.

HYPOTHESIS No. 10.4:- There is no significant difference in the extent of utilization of Overhead Projector and Computer in ICSE board schools according to the students at secondary school stage.

Table 4.54

Significance of difference in the Extent of Utilisation of OHP and Computer in ICSE board school according to the Students at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t</i> -value
1	OHP	600	11.99	9.01	11.92**
2	Computer	600	18.19	8.93	

****Significant at 0.05 level of significance**

Table No. 4.54 shows that the Mean and SD of utilisation of OHP and Computer is 11.99 and 18.19 respectively and 9.01 and 8.93 respectively. After applying *t*-test, *t*-value came out to be 11.92 for df 1118 which is significant at 0.05 level of significance. It means that usage of Computer is more than the OHP according to the Students of ICSE board school at secondary school stage.

HYPOTHESIS No. 10.5:- There is no significant difference in the extent of utilization of Computer and Smartclass in ICSE board schools according to the students at secondary school stage.

Table 4.55

Significance of difference in the Extent of Utilisation of Computer and Smartclass in ICSE board school according to the Students at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t</i> -value
1	Computer	600	18.19	8.93	6.98**
2	Smartclass	600	21.33	6.62	

****Significant at 0.05 level of significance**

Table No. 4.55 shows that the Mean and SD of utilisation of Computer and Smartclass is 18.19 and 21.33 respectively and 8.93 and 6.62 respectively. After applying *t*-test, *t*-value came out to be 6.98 for df 1118 which is significant at 0.05 level of significance. It means that usage of Smartclass is more as compared to Computer according to the Students of ICSE board school at secondary school stage.

HYPOTHESIS No. 10.6:- There is no significant difference in the extent of utilization of Smartclass and Overhead Projector in ICSE board schools according to the students at secondary school stage.

Table 4.56

Significance of difference in the Extent of Utilisation of Smartclass and OHP in ICSE board school according to the Students at secondary school stage

S. No.	Educational Media	N	Mean	SD	<i>t</i> -value
1	Smartclass	600	21.33	6.62	20.30**
2	OHP	600	11.99	9.01	

****Significant at 0.05 level of significance**

Table No. 4.56 shows that the Mean and SD of utilisation of Smartclass and OHP is 21.33 and 11.99 respectively and 6.62 and 9.01 respectively. After applying *t*-test, *t*-value came out to be 20.30 for df 1118 which is significant at 0.05 level of significance.

It means that usage of Smartclass is more as compared to OHP according to the Students of ICSE board school at secondary school stage.

INTERPRETATION:-

- 1) Usage of Computer is more as compared to OHP according to the Students of CBSE and ICSE board school at secondary school stage.
- 2) Usage of Computer is more than the Smartclass according to the Students of CBSE board school at secondary school stage.
- 3) Usage of Smartclass is more as compared to OHP according to the Students of CBSE and ICSE board school at secondary school stage.
- 4) Usage of Smartclass is more as compared to Computer according to the Students of ICSE board school at secondary school stage.
