

APPENDIX - M

Table - 9

Age-wise Distribution of the Students.

Students Group Age	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N=172)		Girls (N=176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
(i) 17 yrs. 6 mns. to 19 yrs. 5 mns.	253	18.01	217	15.45	28	16.28	26	14.77
(ii) 15 yrs. 6 mns. to 17 yrs. 5 mns.	633	45.05	681	48.51	83	48.26	82	46.59
(iii) 13 yrs. 6 mns. to 15 yrs. 5 mns.	519	36.94	506	36.04	61	35.46	68	38.64

$\chi^2_{AE} = 0.687$ with df = 2 ; difference insignificant

$\chi^2_{CG} = 0.464$ with df = 2 ; difference insignificant

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Table - 10
Students

Distribution Of The As Per School Grade.

Student Group School Grade.	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N=172)		Girls (N=176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
(i) Class XI	443	31.53	385	27.42	50	29.07	53	30.11
(ii) Class X	576	41.00	585	41.67	74	43.02	66	37.50
(iii) Class IX	386	27.47	434	30.91	48	27.91	57	32.39

$\chi^2_{CG} = 0.46$ with df = 2 ; difference is insignificant

$\chi^2_{CG} = 2.04$ with df = 2 ; difference is insignificant

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Table - 11

Community-wise Distribution Of The Students.

Student Group Community Structure	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N=172)		Girls (N=176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
(i) Caste Hindu	781	55.59	873	62.18	92	53.49	105	59.66
(ii) Scheduled Caste	440	31.32	394	28.06	50	29.07	53	30.11
(iii) Muslims	164	11.67	118	8.40	23	13.37	13	7.39
(iv) Others	20	1.42	19	1.36	7	4.07	5	2.84

$\chi^2_{AE} = 6.74$ with df = 3 ; difference is insignificant
 $\chi^2_{CG} = 2.79$ with df = 3 ; difference is insignificant

Table - 12

Distribution Of The Family Sizes Of The Students.

Student Group. Family Size.	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N=172)		Girls (N=176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
Above 12	125	8.90	153	10.90	18	10.47	24	13.64
10-12	265	18.86	256	18.23	34	19.77	36	20.46
7- 9	428	30.46	402	28.63	50	29.07	42	23.86
4- 6	454	32.31	449	31.98	51	29.65	59	33.52
1- 3	133	9.47	144	10.26	19	11.05	15	8.52

$\chi^2_{AE} = 1.03$ with df = 4 ; difference is insignificant
 $\chi^2_{CG} = 3.33$ with df = 4 ; difference is insignificant

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Table - 13

Distribution Of The Number Of Siblings Of The Students.

Student Group. No. of Siblings.	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N=172)		Girls (N=176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
Above 8	59	4.20	57	4.06	11	6.40	5	2.84
7 -8	140	9.96	153	10.90	20	11.63	23	13.07
5 -6	328	23.34	354	25.22	38	22.09	40	22.72
3 -4	545	38.79	538	38.32	61	35.46	63	35.80
1 -2	224	15.94	221	15.74	29	16.86	33	18.75
Only child	109	7.77	81	5.76	13	7.56	12	6.82

$\chi^2_{AE} = 2.72$ with df = 5 ; difference insignificant

$\chi^2_{CG} = 3.05$ with df = 5 ; difference insignificant

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Table - 14

Occupational Modes Of The Guardians.

Student Group.	Experimental Group		Item Analysis Group		Boys (N=172)		Girls (N=176)	
	No.	%	No.	%	No.	%	No.	%
Guardian's Occupation	A	B	C	D	E	F	G	H
(i) Professional, technical & related works.	86	6.12	98	6.98	7	4.07	13	7.39
(ii) Administrative, executive & managerial works.	61	4.34	46	3.28	11	6.40	8	4.55
(iii) Clerical & related jobs.	233	16.58	235	16.74	32	18.60	30	17.04
(iv) Sales works.	62	4.41	40	2.85	9	5.23	5	2.84
(v) Trade & Commerce	178	12.67	193	13.75	26	15.11	25	14.20
(vi) Service, Sports & recreation works.	23	1.64	24	1.71	5	2.91	1	0.57
(vii) Transport & Communication works.	15	1.07	18	1.28	3	1.74	1	0.57
(viii) Craftsman, production process & related pursuits.	141	10.04	124	8.83	14	8.14	16	9.09
(ix) Cultivation.	222	15.80	217	15.46	31	18.02	37	21.02
(x) Agricultural labour.	325	23.13	357	25.42	34	19.77	36	20.46
(xi) Others.	59	4.20	52	3.70	-	-	4	2.27

$\chi^2_{AE} = 15.16$ with $df = 10$; difference insignificant

$\chi^2_{CG} = 7.22$ with $df = 10$; difference insignificant

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Table - 15

Percentage Distribution Of The Annual Examination Marks Of The Students.

Student Group Total Marks (%)	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N=172)		Girls (N=176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
80 & above	35	2.49	34	2.42	3	1.74	6	3.41
70 - 79	92	6.55	76	5.41	14	8.14	13	7.39
60 - 69	194	13.81	264	18.80	20	11.63	38	21.59
50 - 59	488	34.73	398	28.35	62	36.05	42	23.86
40 - 49	496	35.30	503	35.83	56	32.56	65	36.93
30 - 39	100	7.12	129	9.19	17	9.88	12	6.82

$\chi^2_{AE} = 3.36$ with df = 5 ; difference insignificant

$\chi^2_{CG} = 4.46$ with df = 5 ; difference insignificant

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Table - 16

Trends Of The Students In Achieving Highest Marks In Examination Subjects.

Student Group. Subjects.	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N= 172)		Girls (N= 176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
(i) Bengali	86	6.12	125	8.90	7	4.07	11	6.25
(ii) English	41	2.92	54	3.85	3	1.74	6	3.41
(iii) Sanskrit	219	15.59	215	15.31	31	18.02	22	12.50
(iv) History	75	5.34	70	4.99	5	2.91	11	6.25
(v) Geography	59	4.20	58	4.13	7	4.07	11	6.25
(vi) Mathematics	298	21.21	248	17.66	31	18.02	29	16.47
(vii) Physics	119	8.46	96	6.84	21	12.21	13	7.39
(viii) Chemistry	115	8.19	62	4.42	21	12.21	5	2.84
(ix) Life Science	39	2.78	65	4.62	8	4.65	11	6.25
(x) Mechanics	25	1.78	-	-	6	3.49	-	-
(xi) Home Science	-	-	252	17.95	-	-	30	17.05
(xii) Psychology	-	-	39	2.78	-	-	6	3.41
(xiii) Logic	-	-	25	1.78	-	-	4	2.27
(xiv) Economics	33	2.35	21	1.50	6	3.49	4	2.27
(xv) Book Keeping	153	10.89	-	-	12	6.98	-	-
(xvi) Agriculture	63	4.48	-	-	6	3.49	-	-
(xvii) Physical Education & Work Edn.	60	4.27	66	4.70	6	3.49	12	6.82
(xviii) Others	20	1.42	8	0.57	2	1.16	1	0.57

$\chi^2_{AE} = 18.14$ with df =14; difference is insignificant

$\chi^2_{CG} = 8.79$ with df =14; difference is insignificant

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Table - 17

Trends Of The Students In Achieving Lowest Marks
In Examination Subjects

Student Group. Subjects	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N= 172)		Girls (N= 176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
(i) Bengali	137	9.75	50	3.56	13	7.56	5	2.84
(ii) English	770	54.81	734	52.27	90	52.32	86	48.88
(iii) Sanskrit	139	9.89	115	8.19	14	8.14	13	7.39
(iv) Geography	27	1.92	94	6.70	6	3.49	15	8.52
(v) Civics	143	10.18	-	-	24	13.95	-	-
(vi) Logic	-	-	31	2.21	-	-	5	2.84
(vii) Physics	-	-	33	2.35	-	-	8	4.55
(viii) Chemistry	-	-	71	5.06	-	-	10	5.68
(ix) Mathematics	86	6.12	190	13.53	14	8.14	21	11.93
(x) Life Science	29	2.06	30	2.14	4	2.33	3	1.70
(xi) Book Keeping	25	1.78	-	-	4	2.33	-	-
(xii) Economics	49	3.49	20	1.42	3	1.74	3	1.70
(xiii) Home Science	-	-	15	1.07	-	-	3	1.70
(xiv) History	-	-	21	1.50	-	-	4	2.27

$\chi^2_{AB} = 8.20$ with df = 8 ; difference is insignificant

$\chi^2_{CG} = 6.37$ with df =11 ; difference is insignificant

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Table - 18

Trends Of The Students Towards Most-liked Examination Subjects.

Student Group Subjects	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N= 172)		Girls (N= 176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
(i) Bengali	51	3.63	110	7.83	4	2.33	10	5.68
(ii) English	27	1.92	41	2.92	5	2.91	6	3.41
(iii) Sanskrit	58	4.13	74	5.27	5	2.91	9	5.11
(iv) History	42	3.00	92	6.55	8	4.65	10	5.68
(v) Mathematics	334	23.77	257	18.31	43	25.00	28	15.92
(vi) Physics	228	16.23	169	12.04	31	18.02	20	11.36
(vii) Chemistry	187	13.30	77	5.48	19	11.05	14	7.95
(viii) Life Science	87	6.19	187	13.32	14	8.14	20	11.36
(ix) Mechanics	27	1.92	-	-	3	1.74	-	-
(x) Book Keeping	39	2.78	-	-	7	4.07	-	-
(xi) Home Science	-	-	156	11.11	-	-	24	13.64
(xii) Psychology	-	-	31	2.21	-	-	6	3.41
(xiii) Logic	-	-	22	1.57	-	-	2	1.14
(xiv) Economics	28	1.99	22	1.57	6	3.49	4	2.27
(xv) Agriculture	75	5.34	-	-	6	3.49	-	-
(xvi) Physical Education & Work Edn.	222	15.80	157	11.18	21	12.21	21	11.93
(xvii) Others(Arts, Music Etc.)	-	-	9	0.64	-	-	2	1.14

$\chi^2_{AE} = 10.17$ With df 1 12 ; difference is insignificant

• $\chi^2_{CG} = 8.65$ with df = 13 ; difference is insignificant

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Table - 19

Trends Of The Student Towards Disliked Subjects.

Student Group Subjects	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N= 172)		Girls (N= 176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
(i) Bengali	69	4.91	52	3.70	11	6.40	4	2.27
(ii) English	781	55.59	757	53.92	91	52.90	88	50.00
(iii) Sanskrit	217	15.44	123	8.76	24	13.95	18	10.23
(iv) Geography	75	5.34	145	10.33	6	3.49	22	12.50
(v) Civics	179	12.74	126	8.97	27	15.70	16	9.09
(vi) Mathematics	61	4.34	186	13.26	11	6.40	26	14.77
(vii) Others	23	1.64	15	1.07	2	1.16	2	1.14

$$\chi^2_{AE} = 4.69 \text{ with df} = 6 ; \text{ difference insignificant}$$

$$\chi^2_{CG} = 2.68 \text{ with df} = 6 ; \text{ difference insignificant}$$

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Table - 20

Trends Of The Students Towards Subjects Of Special Interest.

Subjects	Student Group	Experimental Boys (N=1405)		Group Girls (N=1404)		Item Analysis Boys (N= 172)		Group Girls (N= 176)	
		No.	%	No.	%	No.	%	No.	%
		A	B	C	D	E	F	G	H
(i)	Travelling	1045	74.37	1096	78.06	121	70.35	132	75.00
(ii)	Games and Sports	1311	93.30	1049	74.71	157	91.28	138	78.42
(iii)	Religious activities	36	2.56	60	4.27	7	4.07	6	3.41
(iv)	Machine handling	331	23.56	127	9.04	43	25.00	15	8.52
(v)	Social function	988	70.32	861	61.32	116	67.44	101	57.39
(vi)	Story reading	1369	97.43	1388	98.86	172	100.00	174	98.86
(vii)	Musical soiree	713	50.74	869	61.89	93	54.07	111	63.07
(viii)	Handicrafts	412	29.32	301	21.44	50	29.07	40	22.73
(ix)	Political activities	155	11.03	46	3.28	18	10.47	6	3.41
(x)	Household activities	117	8.33	282	20.09	16	9.30	39	22.16
(xi)	Social meetings	87	6.19	80	5.70	10	5.81	11	6.25
(xii)	Poultry	173	12.31	10	0.71	20	11.63	1	0.57
(xiii)	Gardening	370	26.33	420	29.91	43	25.00	50	28.41

$\chi^2_{AE} = 3.18$ with df = 12 ; difference insignificant

$\chi^2_{CG} = 2.76$ with df = 12 ; difference insignificant

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Table - 21

Trends Of The Students Towards Their
Past-time Activities.

Student Group Passtime Activities	Experimental Group				Item Analysis Group			
	Boys (N=1405)		Girls (N=1404)		Boys (N= 172)		Girls (N=176)	
	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H
I. Sports/Games:								
(i) Outdoor:								
a) Football	473	33.67	-	-	53	30.81	-	-
b) Vollyball	84	5.98	52	3.70	11	6.40	7	3.98
c) Cricket	114	8.11	-	-	18	10.47		
d) Swimming	109	7.76	21	1.50	16	9.30	4	2.27
e) Kindred activities	28	1.99	59	4.20	5	2.91	8	4.55
(ii) Indoor:								
a) Table tennis	61	4.34	29	2.07	6	3.49	5	2.84
b) Chess	32	2.28	10	0.71	8	4.65	2	1.14
c) Carrom	147	10.46	59	4.20	20	11.63	9	5.11
d) Kindred activities	75	5.34	71	5.06	7	4.07	10	5.68
II. Collection:								
a) Stamp	169	12.13	228	16.24	24	13.95	35	19.89
b) Picture/Photo	38	2.70	107	7.62	5	2.91	10	5.68
c) Autograph	23	1.64	23	1.64	4	2.33	4	2.27
d) Kindred activities	17	1.21	21	1.50	2	1.16	4	2.27

Table - 21 (Contd.)

	A	B	C	D	E	F	G	H
III. Music & Fine Arts:								
a) Vocal music	25	1.78	246	17.52	4	2.33	38	21.59
b) Instrumental music	80	5.69	96	6.84	12	6.98	13	7.39
c) Recitation	275	19.57	278	19.80	32	18.60	36	20.46
d) Cinema/ Theatre/ Drama	499	35.52	469	33.40	56	32.55	61	34.66
e) Drawing/ painting	68	4.84	133	9.47	10	5.81	18	10.23
f) Modelling/ Toy making	127	9.04	55	3.92	19	11.05	8	4.55
g) Scwing	-	-	517	36.82	-	-	62	35.23
h) Photography	32	2.28	14	1.00	3	1.74	2	1.14
i) Kindred activities	137	9.75	127	9.05	12	6.98	15	8.52
IV. Story/Novel reading:								
	1270	90.39	1322	94.16	160	93.02	160	90.92
V. Gardening:								
	264	18.79	200	14.25	27	15.70	22	12.50

$\chi^2_{AE} = 12.00$ with df = 22 ; difference insignificant

$\chi^2_{GC} = 13.59$ with df = 21 ; difference insignificant

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Table - 22

Trends Of Livelihood Preferences Of The Students
(Profession - Vocation)

Student Group Profession - Vocation	Experimental Group Boys (N=1405)				Item Analysis Group Boys (N= 172)				Girls (N= 176)			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
	A	B	C	D	E	F	G	H				
(i) Medicine	283	27.26	413	29.42	43	25.00	47	26.71				
(ii) Law	227	16.16	112	7.98	24	13.95	15	8.52				
(iii) Engineering	374	26.62	63	4.49	50	29.07	7	3.98				
(iv) Police	134	9.54	-	-	19	11.05	-	-				
(v) Motor driving	35	2.49	-	-	3	1.74	-	-				
(vi) Teaching	530	37.72	895	63.75	60	34.88	102	57.95				
(vii) Clerical job	250	17.79	536	38.18	34	19.77	69	39.21				
(viii) Govt. Service	527	37.51	576	41.03	69	40.12	70	39.77				
(ix) Father's profession	299	21.28	14	1.00	31	18.02	3	1.70				
(x) Cinema artist	99	7.05	177	12.61	8	4.65	20	11.36				
(xi) Small business (shop etc)	398	28.33	9	0.64	43	25.00	1	0.57				
(xii) Small industry	128	9.11	3	0.21	12	6.98	-	-				
(xiii) Railway service	319	22.70	158	11.25	33	19.19	20	11.36				
(xiv) Postal service	228	16.23	72	5.13	24	13.95	11	6.25				
(xv) Nursing	-	-	427	30.41	-	-	62	35.23				
(xvi) Overseers technicians etc.	296	21.07	16	1.14	42	24.42	4	2.27				
(xvii) Cultivator	229	16.30	67	4.77	23	13.37	9	5.11				
(xviii) Bigbusiness	14	1.00	1	0.07	2	1.16	-	-				
(xix) Contractor	121	8.61	1	0.07	11	6.40	-	-				
(xx) Military	171	12.17	-	-	23	13.37	-	-				
(xxi) Others	83	5.91	115	8.19	8	4.65	12	6.82				
(xxii) Will decide later on.	15	1.06	450	32.05	2	1.16	50	28.41				

$\chi^2_{AE} = 9.71$ with df = 20 ; difference insignificant

$\chi^2_{CG} = 6.92$ with df = 18 ; difference insignificant

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Table - 23

Distribution Of Constitutional Factor (Factor-I) Scores.

Sample Raw Scores	Urban		Semi-Urban		Rural		Total	
	Boys %	Girls %	Boys %	Girls %	Boys %	Girls %	Boys %	Girls %
120-124	1.68	1.41	2.48	1.97	2.17	1.71	2.14	1.71
115-119	2.52	1.41	3.47	2.46	4.65	2.64	3.77	2.28
110-114	5.60	2.82	6.70	2.96	7.44	4.51	6.76	3.63
105-109	8.96	5.07	8.68	3.45	9.61	5.60	9.18	4.84
100-104	11.48	6.76	9.43	6.16	12.25	7.93	11.25	7.12
95-99	14.58	7.89	12.41	10.59	11.47	10.11	12.53	9.69
90-94	12.05	10.42	11.66	11.08	10.85	10.89	11.39	10.83
85-89	9.52	13.80	11.18	12.80	9.92	13.38	10.18	13.32
80-84	8.68	10.98	9.18	12.32	8.99	10.42	8.97	11.11
75-79	7.84	9.58	6.95	11.82	6.05	8.86	6.76	9.90
70-74	6.16	9.01	5.95	10.10	5.58	8.24	5.84	8.97
65-69	4.48	7.89	4.47	5.17	4.03	6.69	4.27	6.55
60-64	3.36	5.92	3.23	3.94	3.26	4.20	3.27	4.56
55-59	1.96	4.79	2.23	2.96	2.17	2.80	2.14	3.35
50-54	1.13	2.25	1.98	2.22	1.56	2.02	1.55	2.14
N	357	355	403	406	645	643	1405	1404
M	90.46	83.82	90.45	85.40	91.76	86.81	91.05	85.64
σ	± 15.45	± 15.99	± 16.38	± 15.49	± 16.39	± 16.10	± 16.14	± 15.95

Index of Skewness : - 0.190
 Measures of Kurtosis : 0.264
 Standard error of mean : ± 0.431 ± 0.426

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Table - 24

Distribution Of Home Adjustment Factor (Factor-II) Scores.

Sample Raw Scores	Urban		Semi-Urban		Rural		Total	
	Boys %	Girls %	Boys %	Girls %	Boys %	Girls %	Boys %	Girls %
81 - 84	2.24	1.41	2.73	1.97	2.33	1.56	2.42	1.64
77 - 80	2.80	3.38	3.23	2.22	3.10	2.64	3.06	2.71
73 - 76	3.08	5.07	3.72	4.19	5.12	4.98	4.20	4.77
69 - 72	4.48	5.92	6.20	7.88	6.05	6.69	5.69	6.84
65 - 68	5.32	6.76	8.19	10.10	8.84	9.17	7.76	8.83
61 - 64	7.28	8.45	10.92	12.07	11.16	13.53	10.11	11.82
57 - 60	11.21	9.86	15.39	17.24	14.10	14.31	13.74	14.03
53 - 56	12.61	16.89	13.90	13.06	15.18	13.06	14.16	14.03
49 - 52	14.86	11.82	10.17	7.88	11.01	11.51	11.74	10.54
45 - 48	11.76	9.58	8.68	6.65	8.06	8.71	9.18	8.34
41 - 44	8.68	7.89	5.46	4.92	5.27	6.06	6.19	6.20
37 - 40	5.60	5.92	3.97	3.69	3.88	3.27	4.34	4.06
33 - 36	5.04	4.51	3.23	3.20	2.64	2.02	3.42	2.99
29 - 32	3.56	1.69	2.23	2.96	2.02	1.40	2.42	1.92
25 - 28	1.68	0.85	1.98	1.97	1.24	1.09	1.57	1.28
N	357	355	403	406	645	643	1405	1404
M	53.04	54.47	56.12	56.62	56.71	56.94	55.61	56.32
σ	+12.60	+13.15	+12.48	+12.37	+12.07	+11.48	+12.20	+11.98

Index of Skewness : - 0.010
Measures of Kurtosis : 0.242
Standard error of mean : ± 0.330 ± 0.320