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Appendix -A

PRE TEST

Time- 30minutes

Total Marks- 30

1. Answer the following: [10x1]

- a) Multiply 97×96
- b) Multiply 112×99
- c) Multiply 4599×99
- d) Multiply 1021×2103
- e) Multiply 652×643
- f) Multiply 795×363
- g) Multiply 246×131
- h) Multiply 989×989
- i) Multiply 25361×11
- j) Multiply 107×105

2. Answer the following: [10x1]

- a) Divide 1234 by 112
- b) Divide 2671 by 828
- c) Divide 7999 by 2001
- d) Divide 8897 by 1103
- e) Divide 1234 by 160
- f) Divide 13905 by 113
- g) Divide 988 by 12
- h) Divide 828 by 172
- i) Divide 799 by 201
- j) Find the answer of $1/19$

3. Answer the following: [5x1]

- a) Find the square of 49
- b) Find the square of 125
- c) Find the square of 999
- d) Find the square of 321
- e) Find the square of 3247

4. Answer the following: [5x1]

- a) Find the square root of 529
- b) Find the square root of 0.00009
- c) Find the square root of 3249
- d) Find the square root of 1024
- e) Find the square root of 55204

Appendix - B

POST TEST

Time- 30minutes

Total Marks- 30

1. Answer the following: [10x1]

- a) Multiply 532×472
- b) Multiply 3998×4998
- c) Multiply 1000001×999999
- d) Multiply 777999×9999
- e) Multiply 362×785
- f) Multiply 8989×8898
- g) Multiply 6471×6212
- h) Multiply 87265×32117
- i) Multiply 11119×99
- j) Multiply 15639×99

2. Answer the following: [10x1]

- a) Divide 1241 by 112
- b) Divide 13466 by 1123
- c) Divide 13905 by 113
- d) Divide 99979 by 21
- e) Divide 899997 by 100003
- f) Divide 8888 by 1112
- g) Divide 88987 by 1013
- h) Divide 7989 by 2011
- i) Find the answer of $1/29$
- j) Find the answer of $1/49$

3. Answer the following: [5x1].

- a) Find the square of 988
- b) Find the square of 185
- c) Find the square of 99999
- d) Find the square of 2134
- e) Find the square of 46325

4. Answer the following: [5x1]

- a) Find the square root of 4096
- b) Find the square root of 0.000079
- c) Find the square root of 119716
- d) Find the square root of 16384
- e) Find the square root of 1245319824

Appendix - C

ControlGroup Test Scores

Serial No	Pre -test score	Post-test score
1	15	14
2	12	14
3	10	10
4	11	11
5	10	12
6	10	10
7	9	8
8	8	8
9	8	8
10	7	8
11	6	6
12	6	5
13	4	6
14	5	4
15	4	5
16	4	4
17	4	3
18	4	2
19	3	3
20	4	2
21	3	3
22	3	2
23	3	4
24	2	4
25	2	3
26	2	2
27	1	2
28	1	1
29	0	1
30	0	0
	161	165

Appendix - D

Experimental Group Test Scores

Serial No	Pre-test Scores	Post-test Scores
1	15	20
2	12	20
3	11	20
4	10	20
5	7	20
6	8	20
7	6	19
8	4	19
9	7	19
10	4	18
11	3	18
12	5	18
13	6	18
14	4	18
15	6	18
16	4	17
17	7	17
18	5	17
19	6	17
20	3	16
21	5	16
22	4	16
23	5	16
24	2	15
25	3	15
26	4	14
27	3	12
28	1	10
29	1	9
30	0	6
	162	486

Appendix -E

Serial No	Schools Name (in Bhadrak)
1	KendriyaVidyalay , Bhadrak
2	JawaharNavodayaVidyalay , Bhadrak
3	M.M SaraswatiSishuMandir, Bhadrak
4	SaraswatiSishuMandir, Basudevpur, Bhadrak
5	SaraswatiSishumandir, Chandigaon, Bhadrak
6	Chandigaon M.E school, Bhadrak
7	Kadabaruan M.E school, Bhadrak
8	Baulimani M.E School, Kodagambhir, Bhadrak
9	Saragadhia M.E School, Bhadrak
10	Pallishri M.E School,. bhadrak
11	Pagada M.E School, Bhadrak
12	Bagurai M.E school, Bhadrak
13	D.N Girls high School (6-10), Bhadrak
14	Charampa Girls high School (6-10), Bhadrak
15	R.C.B.L high School (6-10), Bhadrak