

S 3 0	Pear son Corre lation	- ,1 30	- ,0 42	,0 ,1 16 98	- ,0 80	- ,0 64	,0 ,0 27	- ,0 5 5	,0 ,0 22	- ,1 20	- ,1 21	,0 ,0 02	,0 ,0 24	,0 ,0 25	,0 ,0 64	- ,0 0 5	,3 43 **	,0 ,0 91	,0 ,0 0 5	,0 ,0 75	- ,1 2 8	,1 ,1 77	,2 00 *	,1 ,0 84	- ,0 2 1	,2 26 *	,1 ,1 56	,1 ,1 41	- ,0 23	1	,20 9*
	Sig. (2- tailed)	,1 85	,6 73	,8 68	,0 42	,4 13	,5 17	,7 80	,5 7 9	,8 28	,2 22	,2 15	,9 81	,8 10	,7 99	,5 14	,9 6 0	,0 00	,3 52	,9 5 6	,4 46	,1 9 0	,0 70	,0 40	,0 59	,8 3 1	,0 20	,1 10	,1 48	,8 12	,03 2
	N	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 5	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6	10 6

Keterangan :

* = menyatakan soal valid karena $r_{hitung} > r_{tabel}$, taraf r_{tabel} sebesar 0,189.

Lampiran 2
Lampiran Reliabilitas

No	Nama Siswa	Nomor Butir Soal																									Total	
		s1	s2	s3	s4	s5	s6	s7	s8	s9	s10	s11	s12	s13	s14	s15	s16	s17	s18	s19	s20	s21	s22	s23	s24	s25		
1	Ezar	1	0	1	1	1	0	1	1	1	1	0	1	1	1	0	0	1	0	0	1	0	1	1	1	1	1	6
2	Selia	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	8
3	Fariyah	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	1	15
4	Annazma	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	8
5	Thomas	0	1	1	0	1	1	0	1	1	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	1	0	11
6	Dewi	1	0	0	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	1	0	1	1	0	0	0	0	12
7	Naomi	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	12
8	Rifqi	1	1	1	0	1	1	0	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	12
9	Sewangga	1	0	1	1	1	1	0	0	1	0	0	1	0	0	0	1	1	0	1	0	1	1	1	0	1	1	14

10	Khare naya	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	9	
11	Rigel	1	1	1	1	1	1	0	1	1	0	0	0	1	0	1	1	0	1	0	0	0	0	0	1	1	14	
12	Dient a	0	1	0	0	1	1	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	1	9	
13	Celine	1	1	0	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	1	0	0	1	0	0	1	14	
14	Dhian	1	0	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	7	
15	Ihsan	1	1	1	1	1	0	1	0	1	1	0	1	0	1	0	0	0	0	1	0	1	0	0	1	1	14	
16	Lutfi	1	1	1	0	1	1	0	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	11	
17	Nanda	1	1	0	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	0	0	0	1	0	0	0	12	
18	Putri	0	1	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	1	7	
19	Wiwit	1	1	0	0	1	0	0	0	1	1	0	1	0	0	1	1	0	1	0	0	0	0	0	1	1	0	11
20	Genta	1	1	1	1	1	1	0	1	1	1	0	0	1	0	1	1	0	1	0	0	0	0	0	0	1	0	14
21	Sri	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	13
22	Bunga	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	1	1	0	1	1	10	

23	Hanum	1	1	1	0	1	1	1	0	0	1	1	0	0	0	1	1	1	1	0	0	1	0	0	1	0	1	4
24	Victor	0	0	1	1	1	0	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	0	8	
25	Immanuel	1	1	0	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	1	0	0	1	0	0	1	4	
26	Andre	0	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	
27	Hanifah	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	1	1	0	1	0	3	
28	Angne	1	1	1	0	1	0	1	1	0	1	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	1	
29	Oktaviani	1	1	0	1	1	0	0	1	1	1	0	0	0	1	0	1	1	0	1	0	0	0	0	1	0	2	
30	Rina	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	4	
31	Indah	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	6	
32	Nazla	0	1	1	1	1	1	1	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	1	
33	Shelly	1	1	0	1	1	1	0	1	1	0	0	1	0	1	1	0	1	1	0	0	0	0	0	1	0	3	
34	M. Faerlan	0	1	0	0	1	1	0	1	1	0	1	0	0	0	0	0	1	0	1	0	0	1	0	0	0	9	
35	Farra S	0	1	0	0	1	1	0	1	1	0	1	0	0	0	0	1	0	0	1	0	0	1	0	0	0	9	

49	Annis a	0	0	1	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	7
50	Threz ka	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	1	0	0	1	0	1	0	1	1	16
51	Waist	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	0	0	1	1	1	1	0	16
52	Risan g	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	1	0	0	1	0	1	0	1	0	16
53	Vica	0	0	1	0	1	1	1	0	1	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	9
54	Khoir uniss ah	0	0	0	0	1	1	1	0	0	0	1	0	1	0	1	0	1	0	0	1	0	1	0	1	0	10
55	Deffia	0	1	1	0	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	1	0	1	0	1	1	12
56	Nabila	1	1	1	0	0	0	0	1	1	1	0	1	0	1	0	0	1	0	0	0	0	1	0	1	0	11
57	Rio	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	0	0	0	0	1	1	1	0	17
58	Lisa	0	1	0	0	1	1	1	1	0	0	0	1	1	1	0	1	1	0	1	0	0	1	1	1	0	14
59	Fauzan	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	0	1	0	1	6
60	Dodo	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	1	7
61	Muhammad	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	0	1	0	1	1	1	0	18

6 2	Luis	0	1	1	1	1	1	0	1	1	1	0	1	1	1	0	1	0	1	1	1	0	1	1	1	0	1	8
6 3	Ilham	0	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	1	2
6 4	Hendra	1	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	1	0	1	1	1	1	1	0	1	1	7
6 5	Daniel	0	0	1	0	1	1	0	1	1	0	0	1	0	0	0	0	1	0	1	0	0	1	0	1	0	1	0
6 6	Suryo	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	0	0	0	1	0	1	0	1	4
6 7	Yehezkiel	1	1	1	0	1	1	1	1	1	0	1	1	0	1	0	1	0	0	0	1	0	1	0	1	0	1	5
6 8	Gusti	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0	1	1	0	1	1	1	1	0	9
6 9	Anastasia	0	0	1	1	1	1	0	0	1	0	1	1	0	1	1	0	1	1	1	1	0	0	1	1	0	1	5
7 0	Hamir	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6
7 1	Indah	0	1	0	0	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	8
7 2	Puput	0	1	0	0	0	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
7 3	Brenda	0	1	1	1	1	1	0	1	0	0	1	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	1
7 4	Dimas	1	0	0	0	1	1	0	0	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	8

Lampiran 3
Tingkat Kesukaran Soal

N o	Nama siswa	Nomor Butir Soal																								T o t a l		
		S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	S 10	S 11	S 12	S 13	S 14	S 15	S 16	S 17	S 18	S 19	S 20	S 21	S 22	S 23	S 24		S 25	
1	Ezar	1	0	1	1	1	0	1	1	1	1	0	1	1	1	0	0	1	0	0	1	0	1	0	1	1	1	16
2	Selia	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	8
3	Farihah	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	1	1	15
4	Annazma	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	8
5	Thomas	0	1	1	0	1	1	0	1	1	1	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	1	11
6	Dewi	1	0	0	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	1	0	1	1	0	0	0	0	12
7	Naomi	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	12
8	Rifqi	1	1	1	0	1	1	0	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	12
9	Sewangga	1	0	1	1	1	1	0	0	1	0	0	1	0	0	0	1	1	0	1	0	1	1	1	0	1	1	14
10	Kharena ya	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	9
11	Rigel	1	1	1	1	1	1	0	1	1	0	0	1	0	1	1	0	1	0	0	0	0	0	0	1	1	1	14
12	Dienta	0	1	0	0	1	1	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	1	1	9

1 3	Celine	1	1	0	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	1	0	0	1	0	0	1	4
1 4	Dhian	1	0	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	7
1 5	Ihsan	1	1	1	1	1	0	1	0	1	1	0	1	0	1	0	0	0	0	1	0	1	0	0	1	1	4
1 6	Lutfi	1	1	1	0	1	1	0	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1
1 7	Nanda	1	1	0	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	0	0	0	1	0	0	0	2
1 8	Putri	0	1	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	1	7
1 9	Wiwit	1	1	0	0	1	0	0	0	1	1	0	1	0	0	1	1	0	1	0	0	0	0	1	1	0	1
2 0	Genta	1	1	1	1	1	1	0	1	1	1	0	0	1	0	1	1	0	1	0	0	0	0	0	1	0	4
2 1	Sri	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	3
2 2	Bunga	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	1	1	0	1	1	0
2 3	Hanum	1	1	1	0	1	1	1	0	0	1	1	0	0	0	1	1	1	1	0	0	1	0	0	1	0	4
2 4	Victor	0	0	1	1	1	0	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	8
2 5	Immanue l	1	1	0	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	1	0	0	1	0	0	1	4
2 6	Andre	0	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1
2 7	Hanifah	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	1	1	0	1	0	3
2 8	Angne	1	1	1	0	1	0	1	1	0	1	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	1
2 9	Oktaviani	1	1	0	1	1	0	0	1	1	1	0	0	0	1	0	1	1	0	1	0	0	0	0	1	0	2

30	Rina	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	14
31	Indah	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	16
32	Nazla	0	1	1	1	1	1	1	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	11
33	Shelly	1	1	0	1	1	1	0	1	1	0	0	1	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0	13
34	M. Faeirlan	0	1	0	0	1	1	0	1	1	0	1	0	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	9
35	Farras	0	1	0	0	1	1	0	1	1	0	1	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	9
36	Farhan	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	1	1	0	1	0	0	1	0	0	1	0	11
37	Fahmi	1	1	1	1	0	1	0	1	0	1	1	0	0	1	0	0	1	0	0	0	1	0	0	1	0	0	1	2
38	Awanda	0	1	1	1	1	0	0	1	1	0	0	1	0	1	0	0	0	0	0	1	1	0	1	1	0	1	0	2
39	Nbila	0	1	1	1	1	0	0	1	1	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0	11
40	Nadia	0	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	0	0	1	0	1	1	0	1	1	0	1	17
41	Syifa	0	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	0	0	1	0	1	1	0	1	1	0	1	17
42	Susilawati	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	0	1	0	0	1	0	1	0	1	0	0	0	10
43	Putri	0	1	1	1	1	1	0		1	1	0	1	1	0	1	1	0	1	0	0	0	0	1	0	1	0	1	14
44	Wahid	0	1	1	1	1	0	0	1	1	0	0	1	0	0	1	0	1	0	1	0	1	1	0	1	0	1	0	13
45	Cahya	0	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	0	1	1	0	1	18
46	Riyan	0	1	1	1	1	0	0	1	1	0	0	1	0	1	1	0	1	0	0	0	1	1	1	1	1	0	1	14

47	Putri	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	5		
48	Virani	0	1	0	0	1	1	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	8	
49	Annisa	0	0	1	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	7	
50	Threzka	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	1	0	0	1	0	1	0	1	1	16	
51	Waist	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	0	0	1	1	1	1	0	16	
52	Risang	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	1	0	0	1	0	1	0	1	0	16	
53	Vica	0	0	1	0	1	1	1	0	1	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	9	
54	Khoirunisah	0	0	0	0	1	1	1	0	0	0	1	0	1	0	1	0	1	0	0	1	0	1	0	1	0	10	
55	Deffia	0	1	1	0	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	1	0	1	0	1	1	12	
56	Nabila	1	1	1	0	0	0	0	1	1	1	0	1	0	1	0	0	1	0	0	0	0	0	1	0	1	0	11
57	Rio	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	0	0	0	0	0	1	1	1	0	17
58	Lisa	0	1	0	0	1	1	1	1	0	0	0	1	1	1	0	1	1	0	1	0	0	1	1	1	1	0	14
59	Fauzan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	1	6	
60	Dodo	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	1	7	
61	Muhammad	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	0	1	0	1	1	1	1	0	18
62	Luis	0	1	1	1	1	1	0	1	1	1	0	1	1	1	0	1	0	1	1	1	0	1	1	1	1	0	18
63	Ilham	0	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0	12

8 1	Aziz	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	5
8 2	Kezia	0	0	1	1	1	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	7	
8 3	Herlangg a	0	0	1	0	1	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	0	1	0	7	
8 4	Dimas	1	1	1	0	1	1	1	0	1	0	1	1	1	1	0	0	1	1	0	1	1	1	1	1	18
8 5	M.daffa	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
8 6	Nur fitri	1	0	1	1	1	1	0	0	1	0	1	1	0	1	1	0	1	0	1	1	1	0	1	1	17
8 7	Regina	1	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	19
8 8	Fauzi	0	0	1	1	1	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	7	
8 9	Chevy	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	5
9 0	Gohan	0	0	1	0	0	0	1	0	0	1	0	0	1	1	1	0	1	0	0	0	0	0	0	1	8
9 1	Nazwa	1	1	1	0	1	0	1	1	0	0	1	0	1	1	1	0	1	1	1	1	1	1	1	0	18
9 2	Hanif	1	0	0	1	1	1	0	1	1	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	10
9 3	Winna	0	1	1	0	1	1	1	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	9
9 4	Sekar	0	1	1	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	1	9
9 5	Sekar aulia	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	7
9 6	Endah	0	1	1	0	1	1	0	1	0	0	1	0	0	0	1	1	0	0	0	0	1	0	1	0	10
9 7	Richo	1	1	1	0	1	1	1	0	1	0	1	1	0	0	1	1	1	0	1	0	0	1	1	1	16

98	Say	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	1	1	1	21
99	Irfan	0	0	1	1	1	1	0	0	1	0	0	1	0	1	1	0	1	0	1	0	0	0	0	1	0	11
100	M.armanda	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	3
101	Zsazsa.a	1	1	1	1	1	0	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	21
102	Ana	0	0	1	1	1	1	0	1	1	0	0	1	0	0	1	0	1	1	0	1	0	1	0	0	1	13
103	Windi	0	0	0	0	1	1	1	0	1	0	0	1	0	1	0	0	1	0	1	0	0	1	0	0	0	9
104	Prianti	0	0	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	20
105	Fauziyah	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	6
106	Ghina	1	0	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	0	1	0	1	0	18
	Total Jawab Benar	42	70	79	54	93	73	42	65	77	45	30	62	34	51	36	42	60	33	34	32	32	49	26	59	33	1253
	Jawaban Benar / Jawaban Salah	0,40	0,66	0,75	0,51	0,88	0,69	0,40	0,61	0,73	0,42	0,28	0,58	0,32	0,48	0,34	0,40	0,57	0,33	0,32	0,33	0,46	0,25	0,56	0,31		

	Tingkat Kesukaran	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
		e	e	u	e	e	e	u	e	e	e	e	e	e	e	e	e	e	e	e	e	u	e	e	
		d	d	k	d	d	d	k	d	d	d	d	d	d	d	d	d	d	d	d	k	d	d		
		a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
		n	n	r	n	n	n	r	n	n	n	n	n	n	n	n	n	n	n	n	r	n	n		
		g	g	g	g	g	g	g	g	g	g	g	g	g	g	g	g	g	g	g	g	g	g		

Klasifikasi Indeks Kesukaran (Arikunto,2006)

Interval Koefisien	Klasifikasi
0,70 – 1,00	Mudah
0,30 – 0,69	Sedang
0,00 – 0,29	Sukar

Lampiran 4

Daya pembeda Soal

No	Nama siswa	Nomor Butir Soal																									Total
		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	
1	Say	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	1	1	1	1	21
2	Zsazsa.a	1	1	1	1	1	0	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	21
3	Prianti	0	0	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	20	
4	Gusti	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0	1	1	0	1	1	1	0	1	19
5	Rifka	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	0	1	0	1	1	19
6	Amel	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	1	1	0	1	1	19
7	Regina	1	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	19
8	Cahya	0	1	1	1	1	1	0	1	1	0	0	1	1	1	1	1	0	0	1	1	1	0	1	1	1	18
9	Muhammad	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	0	1	0	1	1	1	0	1	18
10	Luis	0	1	1	1	1	1	0	1	1	0	1	1	1	0	1	0	1	1	1	1	0	1	1	1	0	18
11	Dimas	1	1	1	0	1	1	1	0	1	0	1	1	1	0	0	1	1	0	1	1	1	1	0	1	1	18

1 2	Naz wa	1	1	1	0	1	0	1	1	0	0	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1 8
1 3	Ghin a	1	0	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	0	1	0	1	1 8
1 4	Nadi a	0	1	1	0	1	1	1	1	1	1	0	0	1	1	1	0	0	1	0	1	1	0	1	1	1 7
1 5	Syifa	0	1	1	0	1	1	1	1	1	1	0	0	1	1	1	0	0	1	0	1	1	0	1	1	1 7
1 6	Rio	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	0	0	0	0	1	1	1	0	1 7
1 7	Hend ra	1	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	1	0	1	1	1	1	0	1	1 7
1 8	Nur fitri	1	0	1	1	1	1	0	0	1	0	1	1	0	1	1	0	1	0	1	1	1	0	1	1	1 7
1 9	Ezar	1	0	1	1	1	0	1	1	1	1	0	1	1	1	0	0	1	0	0	1	0	1	0	1	1 6
2 0	Inda h	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1 6
2 1	Thre zka	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	1	0	0	1	0	1	0	1	1	1 6
2 2	Wais t	1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	0	0	1	1	1	1	0	1 6
2 3	Risa ng	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	1	0	0	1	0	1	0	1	0	1 6
2 4	Rich o	1	1	1	0	1	1	1	0	1	0	1	1	0	0	0	1	1	1	0	1	0	0	1	1	1 6
2 5	Farih ah	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0	1	1 5
2 6	Yehe zkiel	1	1	1	0	1	1	1	1	0	1	1	0	1	0	1	0	0	0	1	0	1	0	1	0	1 5
2 7	Anas tasia	0	0	1	1	1	1	0	0	1	0	1	1	0	1	1	0	1	1	1	0	0	1	1	0	1 5
2 8	Sew angga	1	0	1	1	1	1	0	0	1	0	0	1	0	0	0	1	1	0	1	0	1	1	1	0	1 4

29	Rigel	1	1	1	1	1	1	0	1	1	0	0	0	1	0	1	1	0	1	0	0	0	0	0	1	1	14	
30	Celine	1	1	0	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	1	0	0	1	0	0	1	14	
31	Ihsan	1	1	1	1	1	0	1	0	1	1	0	1	0	1	0	0	0	0	1	0	1	0	0	1	1	14	
32	Genta	1	1	1	1	1	1	0	1	1	1	0	0	1	0	1	1	0	1	0	0	0	0	0	1	0	14	
33	Hanum	1	1	1	0	1	1	1	0	0	1	1	0	0	0	1	1	1	1	0	0	1	0	0	1	0	14	
34	Immanuel	1	1	0	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	1	0	0	1	0	0	1	14	
35	Rina	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	14	
36	Putri	0	1	1	1	1	1	0		1	1	0	1	1	0	1	1	0	1	0	0	0	0	1	0	1	14	
37	Riyan	0	1	1	1	1	0	0	1	1	0	0	1	0	1	1	0	1	0	0	0	1	1	1	1	0	14	
38	Lisa	0	1	0	0	1	1	1	1	0	0	0	1	1	1	0	1	1	0	1	0	0	1	1	1	0	14	
39	Suryo	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	0	0	0	1	0	1	0	14	
40	Sri	0	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	13
41	Hanifah	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	1	1	0	1	0	13	
42	Shelly	1	1	0	1	1	1	0	1	1	0	0	1	0	1	1	0	1	1	0	0	0	0	0	1	0	13	
43	Wahid	0	1	1	1	1	0	0	1	1	0	0	1	0	0	1	0	1	0	1	0	1	1	0	1	0	13	
44	Rizky	0	1	1	0	1	0	0	0	1	1	1	1	0	1	0	0	1	1	0	1	0	0	1	1	0	13	
45	Ana	0	0	1	1	1	1	0	1	1	0	0	1	0	0	1	0	1	1	0	1	0	1	0	0	1	13	

46	Dewi	1	0	0	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	2
47	Nao mi	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	2
48	Rifqi	1	1	1	0	1	1	0	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	2
49	Nand a	1	1	0	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	0	0	0	1	0	0	0	2
50	Okta viani	1	1	0	1	1	0	0	1	1	1	0	0	0	1	0	1	1	0	1	0	0	0	0	1	0	2
51	Fah mi	1	1	1	1	0	1	0	1	0	1	1	0	0	1	0	0	1	0	0	0	1	0	0	1	0	2
52	Awa nda	0	1	1	1	1	0	0	1	1	0	0	1	0	1	0	0	0	0	0	1	1	0	1	1	0	2
53	Deffi a	0	1	1	0	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	1	0	1	0	1	1	2
		0,64	0,85	0,85	0,70	0,96	0,83	0,51	0,79	0,91	0,53	0,74	0,45	0,82	0,42	0,55	0,64	0,43	0,40	0,44	0,46	0,60	0,43	0,66	0,46	0,49	
54	Ilha m	0	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	2
55	Tho mas	0	1	1	0	1	1	0	1	1	1	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	1
56	Lutfi	1	1	1	0	1	1	0	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1
57	Wiwit	1	1	0	0	1	0	0	0	1	1	0	1	0	0	1	1	0	1	0	0	0	0	1	1	0	1
58	Andr e	0	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1
59	Angn e	1	1	1	0	1	0	1	1	0	1	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	1
60	Nazl a	0	1	1	1	1	1	1	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	1

6 1	Farhan	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	1	1	0	1	0	0	1	0	1
6 2	Nbila	0	1	1	1	1	0	0	1	1	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1
6 3	Nabila	1	1	1	0	0	0	0	1	1	1	0	1	0	1	0	0	1	0	0	0	0	1	0	1	0	1
6 4	Brenda	0	1	1	1	1	1	0	1	0	0	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	1
6 5	Irfan	0	0	1	1	1	1	0	0	1	0	0	1	0	1	1	0	1	0	1	0	0	0	0	1	0	1
6 6	Bunga	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	1	1	1	0	1	1
6 7	Susilawati	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	0	1	0	0	1	0	1	0	0	0	0
6 8	Khoirunissah	0	0	0	0	1	1	1	0	0	0	1	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1
6 9	Daniel	0	0	1	0	1	1	0	1	1	0	0	1	0	0	0	1	0	1	0	0	1	0	1	0	1	0
7 0	Nur	0	0	1	1	1	0	1	1	1	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
7 1	Hanif	1	0	0	1	1	1	0	1	1	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0
7 2	Endah	0	1	1	0	1	1	0	1	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0
7 3	Kharayana	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
7 4	Dienta	0	1	0	0	1	1	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	1	9
7 5	M. Faerlan	0	1	0	0	1	1	0	1	1	0	1	0	0	0	0	1	0	1	0	0	1	0	0	0	0	9
7 6	Farra	0	1	0	0	1	1	0	1	1	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	9

77	Vica	0	0	1	0	1	1	1	0	1	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	9	
78	Winn a	0	1	1	0	1	1	1	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	9	
79	Seka r	0	1	1	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	1	0	9	
80	Wind i	0	0	0	0	1	1	1	0	1	0	0	1	0	1	0	0	1	0	1	0	0	1	0	0	0	9	
81	Selia	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	8	
82	Anna zma	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	8	
83	Victo r	0	0	1	1	1	0	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	8	
84	Viran i	0	1	0	0	1	1	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	8
85	Inda h	0	1	0	0	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	8
86	Dima s	1	0	0	0	1	1	0	0	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	8
87	Goh an	0	0	1	0	0	0	1	0	0	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0	1	0	8
88	Dhia n	1	0	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	7
89	Putri	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	1	7
90	Anni sa	0	0	1	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	7
91	Dede	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	1	7
92	Kezi a	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	7
93	Herla ngga	0	0	1	0	1	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	7

Rata - Rata	0,5	0,7	0,4	0,2	0,9	0,5	0,8	0,3	0,5	0,2	0,9	0,3	0,9	0,8	0,6	0,5	0,9	0,9	0,5	0,3	0,5	0,2	0,6	0,5	0,3
Daya pembeda	0,49	0,38	0,21	0,38	0,17	0,28	0,36	0,36	0,31	0,80	0,06	0,11	0,50	0,05	0,05	0,05	0,05	0,05	0,04	0,03	0,08	0,08	0,01	0,06	
Kriteria	Cukup	Cukup	Cukup	Cukup	Jelek	Cukup	Cukup	Cukup	Cukup	Cukup	Cukup	Cukup	Cukup	Jelek	Cukup	Jelek	Cukup	Jelek	Cukup	Cukup	Cukup	Cukup	Cukup	Cukup	

Klasifikasi daya pembeda (Arikunto,2006)

Daya Pembeda	Tingkat Daya Pembeda
0,71 – 1,00	Sangat baik
0,41 – 0,70	Baik
0,21 – 0,40	Cukup
0,00 – 0,20	Jelek

Lampiran 5

Nilai *pretest* dan *posttest* kelas kontrol dan eksperimen

Kelas kontrol

No	Nama	Nilai Pretes	Nilai Posttes
1	Abi Yahya	24	60
2	Adelaida Betris	12	72
3	Alif Nashir	8	80
4	Amelia Febrianti	56	72
5	Annisa Rachma	72	60
6	Bilqis Nabilla	68	80
7	Caisar Pratama	12	52
8	Christian Hans	44	64
9	Diana Tira	28	72
10	Ebend Abigael	20	84
11	Erla Yunizar	56	76
12	Fatimah Nuurussa	32	64
13	Febby Fitria	28	84
14	Genta Pertiwi	64	64
15	Hagistiko Pramada	40	52
16	Icha Anggreta	16	76
17	Ikhwan Maulana	28	56
18	Intan Purnamasari	44	88
19	Lestari Rahmawati	24	76
20	M. Rafi	60	64
21	M.Choenur	28	68
22	Marco Romero	76	84
23	Miladia Putri	52	56
24	Nadilla Putri	36	68
25	Neila Amna	20	76
26	Nurul Dina	24	80
27	Putra Zahianto	52	68
28	Regita Sayifa	44	68
29	Sabaria Andriana	48	60
30	Salman Al Faridzi	20	72

31	Selly Septika	20	72
32	Syahrani	40	68
33	Tiara Nabila	36	72
34	Vika Indah	48	76
35	Widyadhana Popy	36	64
36	Yose Imanuel	40	60

Kelas eksperimen

No	Nama	Nilai <i>Pretes</i>	Nilai <i>Posttes</i>
1	Adjie	56	68
2	Alecia	28	72
3	Andre	44	60
4	Aufa	36	68
5	Bunga	60	72
6	Cut	36	88
7	Damar	36	76
8	Dimas	12	80
9	Dita	16	76
10	Ega	48	68
11	Evelin	64	76
12	Fernanda	32	92
13	Hanifah	40	68
14	Hazim	24	76
15	Imelda	32	80
16	Kasamira	64	56
17	Khrisna	20	72
18	M. Fajar	36	76
19	M. Rizky	28	80
20	M. Yudha	28	88
21	M.Fajar	20	80
22	M.Rizky	12	88
23	Mayza	44	64
24	Nadhia	56	92
25	Novie	16	80
26	Rhodolazs	24	84
27	Riendy	28	56

28	Salsabila	28	80
29	Shofia	40	84
30	Shuni	60	72
31	Syifa	48	96
32	Triana	16	84
33	Wahyu	40	64
34	Yufira	68	72
35	Yufira	40	80
36	Yusuf	24	84

Lampiran 6

Dokumentasi Penelitian



Gambar 1

Penulis Mempertegas jawaban pada kartu dare



Gambar 2.

Salah satu murid menjawab pertanyaan kartu truth

RIWAYAT HIDUP PENULIS



Clavinzky Anggita Pasaribu dilahirkan di Jakarta pada tanggal 20 september 1996. Penulis merupakan anak kedua dari tiga bersaudara dari pasangan M. Pasaribu dan M. Simatupang. Penulis menyelesaikan pendidikan Tamana Kanak-Kanak (TK) di TK Boncel pada tahun 2002. Pada tahun 2008 penulis menyelesaikan pendidikan sekolah dasar di SD Negeri 01 Rawailat. Pada tahun itu juga penulis melanjutkan pendidikan di SMP Sejahtera 2 Cileungsi dan lulus pada tahun 2011 kemudian melanjutkan SMA di SMAN 1 Klapanunggal dan lulus pada tahun 2014. Pada tahun 2014 penulis melanjutkan studi di perguruan tinggi swasta di Universitas Kristen Indonesia (UKI), Fakultas Keguruan dan Ilmu Pendidikan (FKIP), Program Studi Pendidikan Biologi. Penulis menyelesaikan kuliah strata satu (S1) pada tahun 2018.



Universitas Kristen Indonesia Fakultas Keguruan dan Ilmu Pendidikan

Nomor : 244/FKIP/Wadek/Genap/2018

3 April 2018

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Perihal : Permohonan Izin Melaksanakan Penelitian

Kepada Yth;
Kepala Sekolah
SMAN 2 Cileungsi
Bogor
Dengan hormat.

Sehubungan dengan rencana penulisan skripsi mahasiswa/i kami :

Nama	: Clavinzky Anggita Pasaribu
NIM	: 14 15150013
Semester/ Program Studi	: VIII/ Pendidikan Biologi
Judul Skripsi	: "Pengaruh Media Permainan Truth and Dare Terhadap Hasil Belajar Biologi Siswa di SMAN 2 Cileungsi."

kami mohon bantuan Bapak/Ibu untuk memberikan izin kepada mahasiswa/i tersebut melaksanakan penelitian di sekolah yang Bapak/Ibu pimpin.

Atas perhatian Bapak/Ibu, kami mengucapkan terima kasih.

Jurusan Ilmu Pendidikan
Program Studi Bimbingan dan Konseling

Jurusan Pendidikan Bahasa dan Seni
Program Studi Pendidikan Bahasa Inggris

Jurusan Pendidikan MIPA
Program Studi Pendidikan Matematika
Program Studi Pendidikan Biologi
Program Studi Pendidikan Fisika
Program Studi Pendidikan Kimia

Jurusan Pendidikan Agama Kristen
Program Studi PAK (S1)

Jurusan Bahasa Mandarin
Program Studi Pendidikan Bahasa Mandarin



wakil Dekan,

Drs. Kerdia Simbolon, M.Pd.
NIP. 960924



PEMERINTAH DAERAH PROVINSI JAWA BARAT
DINAS PENDIDIKAN

CABANG DINAS PENDIDIKAN WILAYAH I
SEKOLAH MENENGAH ATAS NEGERI 2 CILEUNGSI

Komp. Metland Transyogi Jl. Gandaria Utara No. 2 Telp ☎ : 021-22887814
Website : www.smanduacileungsi.sch.id E-mail ✉: smanduacileungsi@yahoo.com
Cileungsi – Bogor 16820

SURAT KETERANGAN

Nomor. 800/250/SMAN2CILEUNGSI/KCD.Wil.1

Yang bertanda tangan dibawah ini Kepala SMA Negeri 2 Cileungsi menerangkan bahwa :

Nama : Clavinzky Anggita Pasaribu
Jenis Keamin : Perempuan
NPM : 1415150013
Program Studi : Pendidikan Biologi
Universitas : Universitas Kristen Indonesia
Jenjang : S1 (strata satu)

Yang bersangkutan telah melakukan Penelitian sebagai bahan penulisan dalam skripsi di SMA Negeri 2 Cileungsi yang berjudul, “ Pengaruh media permainan TRUTH AND DARE dengan model pembelajaran team group tournament (TGT) terhadap hasil belajar Biologi siswa materi ekologi kelas X di SMAN 2 Cileungsi ”.

Demikian surat ini kami buat agar dapat dipergunakan dengan sebaik baiknya dan penuh tanggung jawab.

Cileungsi, 11 Mei 2018
Kepala SMAN 2 Cileungsi

Ds. Pandi
196801071994121001

