Uji Validitas Soal Siklus I

No.	Mp	Mt	St	p	q	r hitung	r tabel	Keterangan
1	30.536	28.457	8.675	0.800	0.200	0.486	0.334	V
2	30.452	28.457	8.675	0.886	0.114	0.649	0.334	V
3	31.577	28.457	8.675	0.743	0.257	0.620	0.334	V
4	29.690	28.457	8.675	0.829	0.171	0.317	0.334	V
5	31.000	28.457	8.675	0.743	0.257	0.505	0.334	V
6	33.333	28.457	8.675	0.600	0.400	0.698	0.334	V
7	31.222	28.457	8.675	0.771	0.229	0.594	0.334	V
8	31.538	28.457	8.675	0.743	0.257	0.613	0.334	V
9	32.056	28.457	8.675	0.514	0.486	0.433	0.334	V
10	30.933	28.457	8.675	0.857	0.143	0.709	0.334	V
11	33.167	28.457	8.675	0.514	0.486	0.567	0.334	V
12	31.619	28.457	8.675	0.600	0.400	0.453	0.334	V
13	32.737	28.457	8.675	0.543	0.457	0.545	0.334	V
14	31.833	28.457	8.675	0.686	0.314	0.583	0.334	V
15	31.370	28.457	8.675	0.771	0.229	0.626	0.334	V
16	33.947	28.457	8.675	0.543	0.457	0.700	0.334	V
17	31.577	28.457	8.675	0.743	0.257	0.620	0.334	V
18	33.850	28.457	8.675	0.571	0.429	0.728	0.334	V
19	28.080	28.457	8.675	0.714	0.286	-0.070	0.334	TD
20	32.087	28.457	8.675	0.657	0.343	0.588	0.334	V

Keterangan:

V : Valid
TD : Tidak Valid

Tingkat Kesukaran Soal Siklus I

No.	B	JS	P	Keterangan
1	28	35	0.800	Mudah
2	31	35	0.886	Mudah
3	26	35	0.743	Mudah
4	29	35	0.829	Mudah
5	26	35	0.743	Mudah
6	21	35	0.600	Sedang
7	27	35	0.771	Mudah
8	26	35	0.743	Mudah
9	18	35	0.514	Sedang
10	30	35	0.857	Mudah
11	18	35	0.514	Sedang
12	21	35	0.600	Sedang
13	19	35	0.543	Sedang
14	24	35	0.686	Sedang
15	27	35	0.771	Mudah
16	19	35	0.543	Sedang
17	26	35	0.743	Mudah
18	20	35	0.571	Sedang
19	25	35	0.714	Mudah
20	23	35	0.657	Sedang

Soal dengan P 0,00 - 0,30 = Sukar
Soal dengan P 0,30 – 0,70 = Sedang
Soal dengan P 0,70 – 1,00 = mudah
Suharsimi Arikunto, (2007: 210)

Daya Beda Soal Siklus I

No.	BA	JA	BB	JB	D	Keterangan
1	10	11	7	11	0.273	Cukup
2	11	11	7	11	0.364	Cukup
3	11	11	5	11	0.545	Baik
4	10	11	7	11	0.273	Cukup
5	11	11	6	11	0.455	Baik
6	11	11	1	11	0.909	Baik Sekali
7	11	11	4	11	0.636	Baik
8	11	11	4	11	0.636	Baik
9	6	11	2	11	0.364	Cukup
10	11	11	7	11	0.364	Cukup
11	9	11	3	11	0.545	Baik
12	11	11	3	11	0.727	Baik Sekali
13	9	11	2	11	0.636	Baik
14	11	11	2	11	0.818	Baik Sekali
15	11	11	5	11	0.545	Baik
16	11	11	0	11	1.000	Baik Sekali
17	11	11	5	11	0.545	Baik
18	11	11	0	11	1.000	Baik Sekali
19	7	11	8	11	-0.091	Jelek
20	10	11	4	11	0.545	Baik

Klasifikasi Daya Pembeda:
D: 0.00 – 0,20 = Jelek
D: 0.20 – 0.40 = Cukup
D: 0.40 – 0.70 = Baik
D: 0.70 – 1.00 = Baik Sekali
Suharsimi Arikunto, (2007: 218)

Uji Reliabilitas Soal Siklus I

Rumus K-R. 21:

$$r11 = \left(\frac{n}{n-1}\right)\left(1 - \frac{Mt(n-Mt)}{nS_t^2}\right)$$

$$r11 = \left(\frac{20}{20-1}\right)\left(1 - \frac{15{,}32(20-15{,}32)}{20\ x\ 234{,}702}\right)$$

$$= \left(\frac{20}{19}\right)\left(1 - \frac{15{,}32(4{,}68)}{2971{,}92}\right)$$

$$= (1.052)\left(1 - \frac{71{,}698}{2971{,}92}\right)$$

$$= (1.052)(1 - 0.064)$$

$$= (1.052)(0.936)$$

$$= 0.984(Reliabilitasnya\ Sangat\ Tinggi)$$

No	Nomor Butir Soal																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1	1	0	1	1	1	1	0	1	1	0	0	1	1	1	0	1	0	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1
3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0
4	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1
5	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	0	1
6	1	1	0	1	1	1	1	0	1	1	0	0	1	1	1	0	1	0	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	1	1	1	0	1
9	0	1	0	1	0	1	1	1	1	0	0	1	1	1	1	1	0	1	1	0
10	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1
11	1	0	1	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0	1	1
12	1	1	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
13	0	1	1	1	0	1	1	1	0	1	0	1	0	1	1	1	0	1	1	0
14	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
15	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
16	1	1	1	1	0	0	1	0	1	1	1	0	1	0	0	0	1	0	0	1
17	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
18	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
19	1	1	1	1	1	0	1	0	0	1	0	1	0	1	0	0	1	0	1	1
20	1	1	1	1	1	0	0	1	0	1	1	0	0	0	1	0	1	0	1	0
21	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0
22	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0
24	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0
25	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1
26	0	1	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	1	1

27	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
28	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
29	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
31	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
32	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1	0	1	1	1	1
33	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
34	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	0	1
35	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	0	1	0	1	0
Σ	28	31	26	29	26	21	27	26	18	30	18	21	19	24	27	19	26	20	25	23
r hitung	0.486	0.649	0.62	0.317	0.505	0.698	0.594	0.613	0.433	0.709	0.567	0.453	0.545	0.583	0.626	0.7	0.62	0.728	-0.07	0.588
r tabel	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334
Ket	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	TD	V