**Lampiran 4. Perhitungan Validitas dan Reliabilitas Butir Soal**

1. **Validitas Tes**

SDt = -

**=**-

**=√**663,2 – 631,5

=√31,7

=5,63

Mt =

**=**

= 25,13

Validitas Soal No

1. Dik mt = 25,13

SDt = 5,63

P = 0,8

Q = 0,2

=

=26,62

rpbi= .√

= . √

= .

=0,26 .√4

=0,26 . 2

= 0,52 ( Status Valid)

1. **Reliabilitas Tes**

Vt = ∑xt – (∑x)2

N

Soal No 1

1. Vt = 242 –

30

=576 –

30

=

=

=18,56

Dik p = 24,8

q = 5,15

Vt = 616,31

K = 20

r11 = ( ( )

r11 = ( ( )

= ( ( )

= ( ( )

= (1,05)(0,79)

= 0,8295