

Q. 8 -

Participants	Before therapy	After Therapy	Diff	Absolute diff	Rank
1					
2 1	10	7	-3	3	3
3 2	8	6	-2	2	2
4 3	12	10	-2	2	2
5 4	15	12	-3	3	3
6 5	6	5	-1	1	1
7 6	9	8	-1	1	1
8 7	11	9	-2	2	2
9 8	7	6	-1	1	1
10 9	14	12	-2	2	2
10 10	10	8	-2	2	2

$H_0$  : No significant impact

Before = After

$H_a$  : There is significant impact Before  $\neq$  after

Let  $\alpha = 0.05$

$n = 10$

$T_+ = 10$

$T_- = 0$

$w_{stat} = 0$

$w_{critical} = 8$

$w_{stat} < w_{critical}$

for so,  $H_0$  is reject

Hence, there is significant impact of therapy on anxiety levels.

Rank

avg of 1<sup>st</sup> =  $\frac{1+1+1}{3} = 1$

avg of 2<sup>nd</sup> =  $\frac{2+2+2+2+2}{5} = 2$

avg of 3<sup>rd</sup> =  $\frac{3+3}{2} = 3$

$T_+ = 1+3+2 = 6$