

Section - III

Q-3. Minimum edit distance. [Considering substitution = 2]
ins/del = 1

Occupation → Transition

		T	r	a	n	S	L	i	t	i	O	n
O		1	2	3	4	5	6	7	8	9	10	
O	1	2	3	4	5	6	7	8	9	10	11	
C	2	3	4	5	6	7	8	9	10	11	12	
C	3	4	5	6	7	8	9	10	11	12	13	
n	4	5	6	7	8	9	10	11	12	13	14	
p	5	6	7	8	9	10	11	12	13	14	15	
a	6	7	8	7	8	9	10	11	12	13	14	
t	7	8	9	8	8	9	10	10	11	12	13	
i	8	9	10	9	10	11	10	10	10	11	12	
O	9	10	11	10	11	12	11	12	10	10	11	
n	10	11	12	11	10	11	12	13	12	10	10	

∴ Distance = 10 [Substitution = 2]

~~Steps~~

~~Initial~~ ~~Matrix~~