

Q2(a) Basic Feasible solution of transportation problem using North west corner method.

	destination				
	1	2	3	4	
1	3	1	7	4	300
2	2	6	5	9	400
3	8	3	3	2	500
Demand	250	350	400	450	

	1	2	3	4
1	250 3	50 1	7	4
2	2 2	300 6	100 5	9
3	8	3 3	300 3	200 2
Demand	250 0	350 300 0	400 300 0	400 0

300 50 0
400 100 0
500
2000

Total cost =

$$250 \times 3 + 50 \times 1 + 300 \times 6 + 100 \times 5 + 300 \times 3 + 400$$

$$= 750 + 50 + 1800 + 500 + 900 + 400$$

$$= \text{₹ } 9400$$