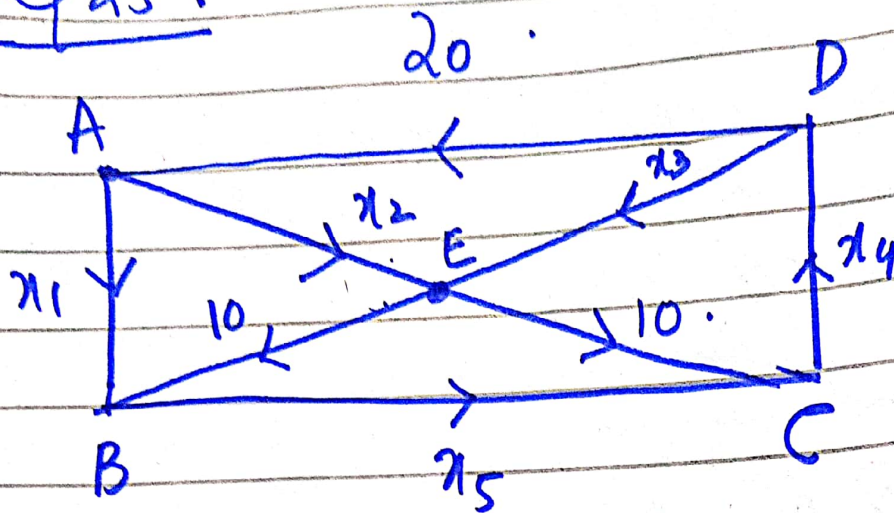


Q25.



if $x_1 = x_3 = 0$.

Eg, of the Flow at various junctions
are as under.

At A:

No of Vehicles enter =
No of Vehicles Leave

$$20 = x_1 + x_2$$

$$\text{At B: } x_1 + 10 = x_5$$

$$\text{At C: } x_5 + 10 = x_4$$

$$\text{At D: } x_4 = x_3 + 20$$

$$\text{At E: } x_2 + x_3 = 10 + 10.$$

$$x_2 + x_3 = 20.$$

$$x_1 + x_2 = 20.$$

$$x_1 + 0x_2 + 0x_3 + 0x_4 - x_5 = -10$$

$$0x_1 + 0 + 0 + x_4 - x_5 = 10.$$

$$0 + 0 + x_3 - x_4 + 0x_5 = -20.$$

$$0 + x_2 + x_3 + 0 + 0 = 20.$$

$$x_1 + x_2 + 0x_3 + 0x_4 + 0x_5 = 20.$$

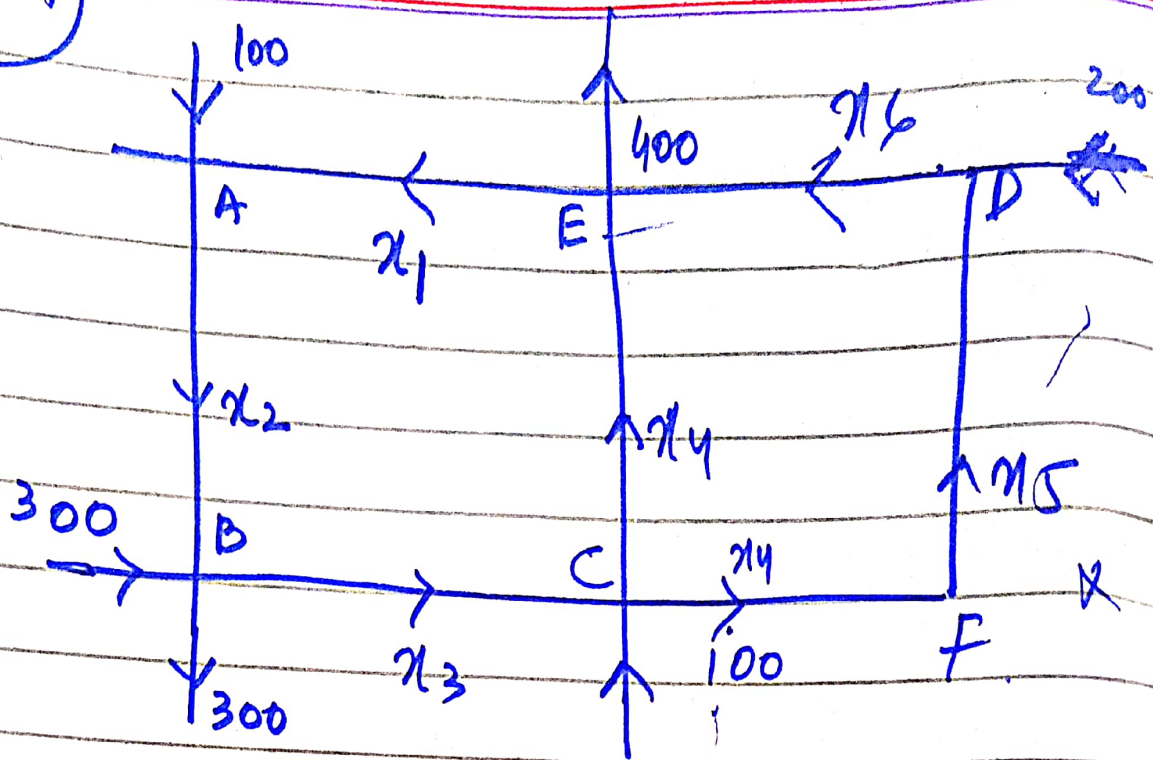
$$0 + 0 - x_3 + x_4 + 0 = 20.$$

$$0 + x_2 + x_3 + 0 + 0 = 20.$$

$$-x_1 + 0 + 0 + 0x_4 + x_5 = 10.$$

$$0 + 0 + 0 + x_4 - x_5 = 10$$

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$x_1, x_2, x_3, x_4, x_5, x_6$. No of Vech

along different Section of Various Roads.

At A: $x_1 + 100 = x_2$.

At B: $x_2 + 300 = x_3 + 300$

At C: $x_3 + 100 = x_4 + x_4$

At D: $x_5 + 200 = x_6$.

E:

$$x_6 + x_4 = 400 + x_1$$