$$85a$$
) $r_p = 500 \times 250$ units/yr $r_d = 100000$ units/yr $r_d = 12.5\%$ $r_d = 0.25$

• total cost on basis of ophmal policy
$$= \sqrt{\frac{2r_d \left(o \, C_n \cdot \left(1 - \frac{r_d}{r_p} \right)}{r_p}} + \frac{2 \times 100000}{r_p}$$

• Optimal so. of set-ups
$$= 8d = 10 \text{ set-ups}.$$

$$8^*$$

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· Reorder level = Max. Consumption x max. Reorder point

Component P: 900 x 6 = 5400 units

component & : 900 × 4 = 3600 units

· Minimum stock level = Reorder level - [normal consumption x]

P = 5400 - (600 x 5) = 2400 units

 $0 = 3600 - (800 \times 3) = 1800 \text{ units}$

· Max . stock level =

- Reorder + Reorder - (min. consumption x min. reorder)
level quantity point

 $P = 5400 + 4000 - (300 \times 4) = 8200 \text{ units}$

 $8 = 5400 + 7000 - (300 \times 2) = 11,200 units$

• Average stock level = Min. stock level $+\frac{1}{2}$ Resoder quantity. $P = 2400 + \frac{1}{2}(4000) = 4400$ unit

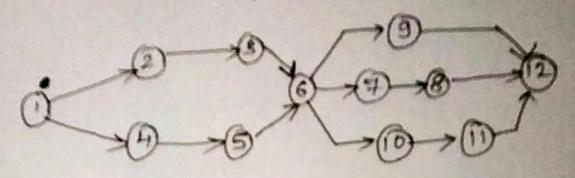
P = (Min. level + max. level)/2 = (2400 + 8200)/2 = 5300 units

B = Min. Level $+\frac{1}{2}$ Reorder $a_{ty} = 1800 + \frac{1}{2}(2000) = 5300$ with $b_{ty} = 1800 + \frac{1}{2}(2000) = 5300$

B = (Min. Lurd + max. Lurd)/2 = (1800 + 11,200)/2 = 6500 units

926)

Network Diagram



- · cycle time = 12 seconds
- . Min. no. of workstahms = sum of total task / cycle time = 50/12 = 4.16 = 05
- Line efficiency = $\frac{80m \text{ of total task}}{m \cdot \text{ of w/s} \times CT} = \frac{50}{5 \times 12}$ = 0.833 = 83.3.%
- · Balance Delay = 1-0.833 = 0.167 = 16.7%
- · Smoothpen Indu = 34