2.3)

Part A:

Let of be grantly of

Aroual production: 3600 writs

Components/unit: 47

Components/wal made in plant: 40% \$147

Compo.

purchased; = 28

Part B:

Annual production: 2500 units

Components/unit, 52.

Made In plant: 30%. of 52

purchased: [34]

> Total no. of compounts:

(a) made in plant:

= 19×3600 + 16×2500

= 108400

(b) purchased:

= 2843600+ 3642500

= 190800

2.5)

8 models:

Each model: 900 wits.

Each unit: 180 companants.

Each component: 6 proceeding operations

Each processing operation: Imen.

(a) Total number of components, per gus 180x900 x 8 = [1296000]

(b) Processing operations per years
6x180x900x8 = 7776000

(c) 10 Total time: 1x bx180x900x3

=7776000min = 129600hms.

=> No. of cooken. 129,000 = 94.8

10 models

1000 units/model. Acrembly time: 48 min Junit

300 components/unit

8 precising operations component.

(a) Processing operation. (8405) x. 1000 x 10 = 8400000 Assembling operations: 10×1000 = [10000

(b) Processing time. 8400000 x 30 0.5 min = 4200000 min. Assembly 10000 x 48 = 480000 min

> Total time: 4680000 min.

=> No. of worker: 4680000/60 = 39

Spree Single Shift: No-of workstahlow. (c) Total floor space:

Avea: 39×25 = 975m2

Allowance - 45%.

=> [Freal aca: 1413.75m2]