

29/8/

Ganesh

1. Ram initial state = 24 hrs

Rate <sup>at</sup> works :  $\Rightarrow$  16 hrs

Amount of work done  $\Rightarrow \frac{\text{work state}}{\text{state}} \Rightarrow \frac{16}{24}$

$\Rightarrow \frac{2}{3}$  work

$\frac{1}{3}$  work incomplete

He did the remaining work in 18 hrs

$\Rightarrow \frac{1}{3} \times 18$

$\Rightarrow$  6 hrs extra

$\therefore$  Ans:  $16 + 6 \Rightarrow$  22 hrs

2. 1 day work of A =  $\frac{1}{10}$

1 day work of B =  $\frac{1}{20}$

With help of C, they

did in 4 days  $\Rightarrow \frac{1}{4}$

(1 day work of A, B & C)

1 day work of C =  $\frac{1}{4} - \frac{1}{10} - \frac{1}{20}$

$\Rightarrow \frac{5 - 2 - 1}{20}$

$\Rightarrow \frac{2}{20}$

$\Rightarrow \frac{1}{10}$

C can do in 10 days