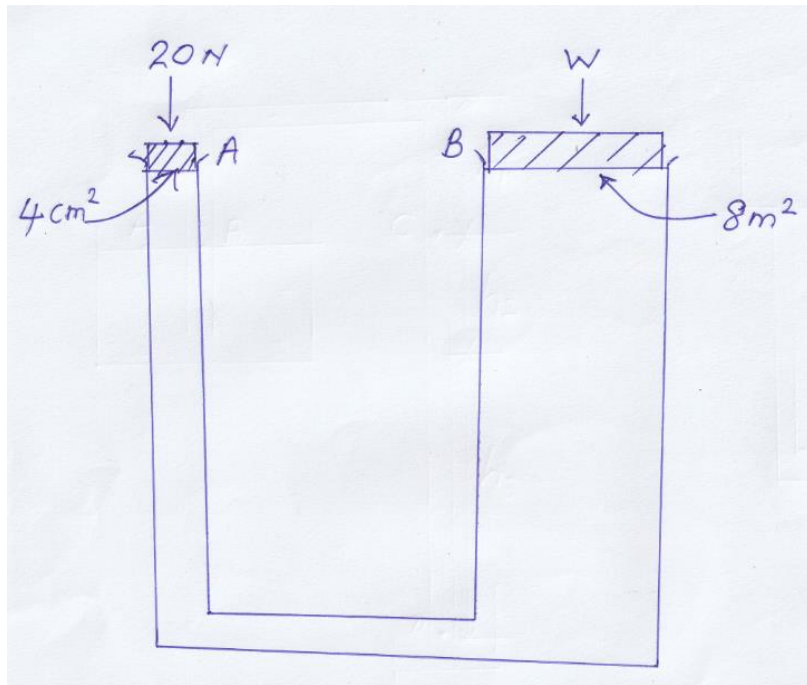


Question 23



Find the maximum weight that can be lifted using 20N force

..... =

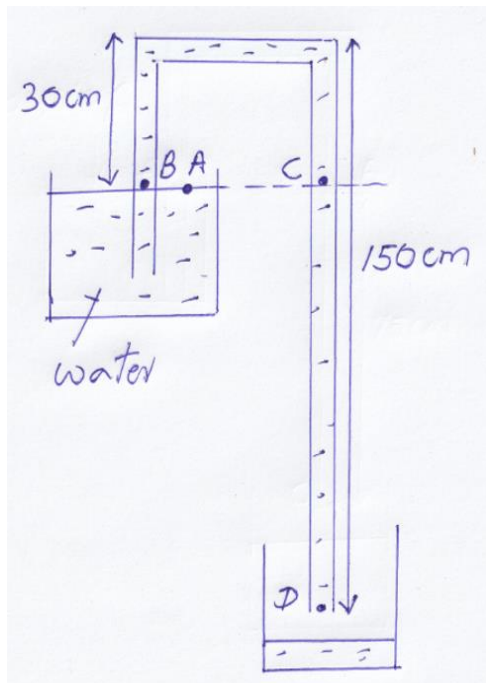
..... / = /

..... / = /

..... x x (...../.....) =

..... =

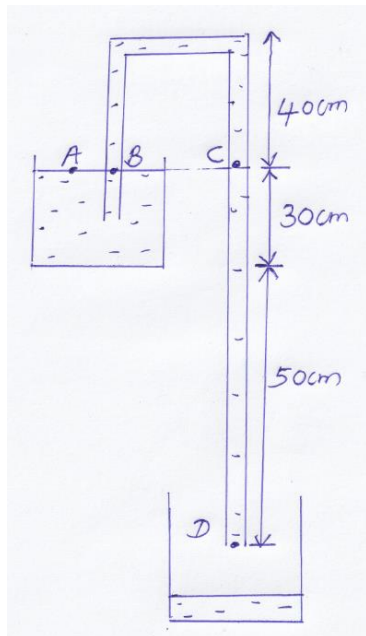
Question 24 (Syphon method)



Find the pressure difference between in and out of D. (Atmospheric pressure is π . Density of water is 1000kgm^{-3} and the gravitational acceleration is 10ms^{-2})

- Pressure at A =
 =
- Pressure at B =
 =
- Pressure at C =
 =
- Pressure at D_i = +
 = + \times (..... -) / \times
 = +
- Pressure at D_o =
- Pressure difference = -
 =

Question 25



Find the pressure difference between in and out of D. (Atmospheric pressure is π . Density of water is 1000kgm^{-3} and the gravitational acceleration is 10ms^{-2})

Pressure at A =

=

Pressure at B =

=

Pressure at C =

=

Pressure at D_i = +

= + \times (..... +) / \times

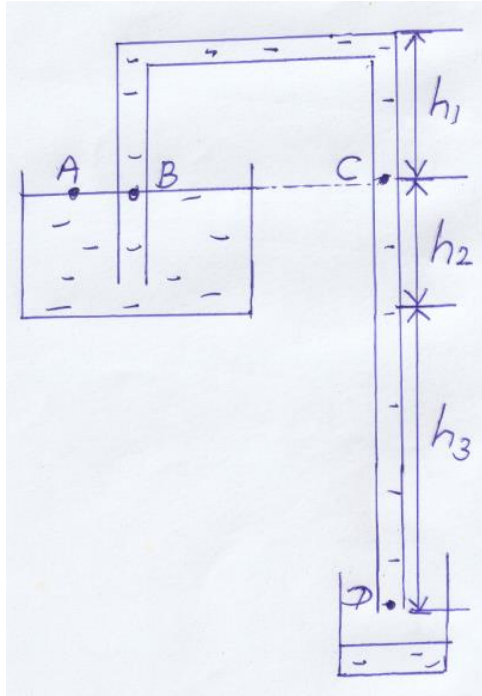
= +

Pressure at D_0 =

Pressure difference = -

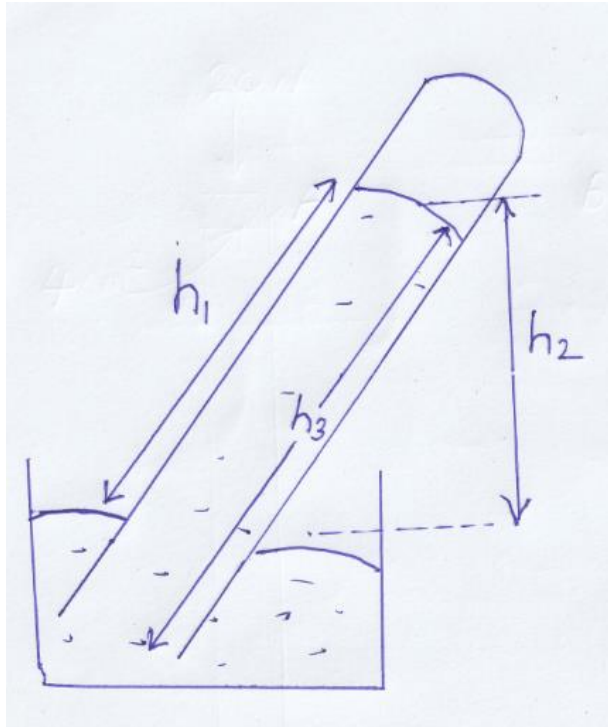
=

Question 26



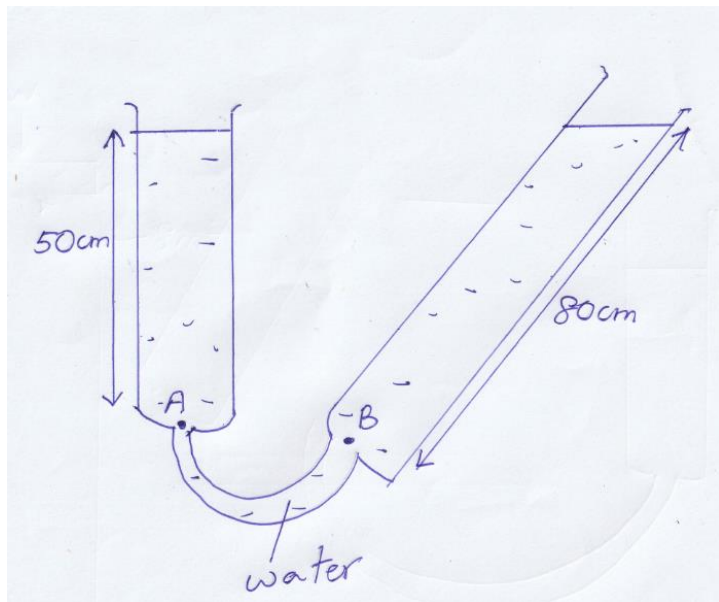
How can you remove the liquid in minimum time.

Question 27



What will be the atmospheric pressure ?

Question 28



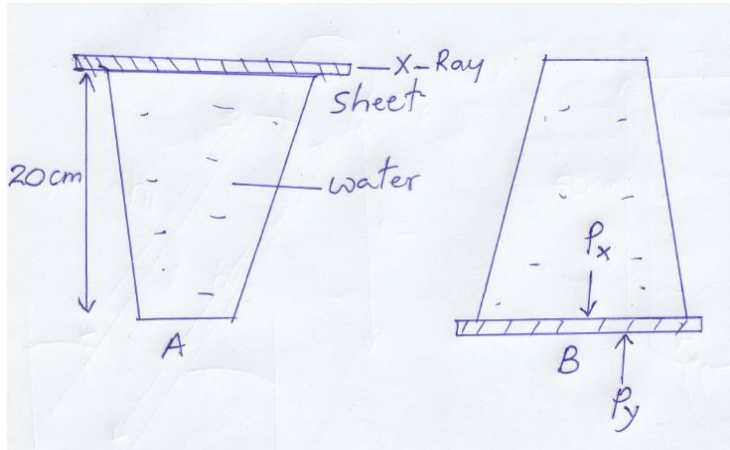
Find the

- (i) **Pressure at A**
- (ii) **Pressure at B**

(Atmospheric pressure is π , density of water is 1000kgm^{-3} and $g = 10\text{ms}^{-2}$)

- (i) Pressure at A = +
- = +
- =
- (ii) (ii) Pressure at B =
- =

Question 29



Why not the X – ray sheet fall

$P_x = \dots\dots\dots$

$= \dots\dots\dots$

$= \dots\dots\dots$

$= \dots\dots\dots$

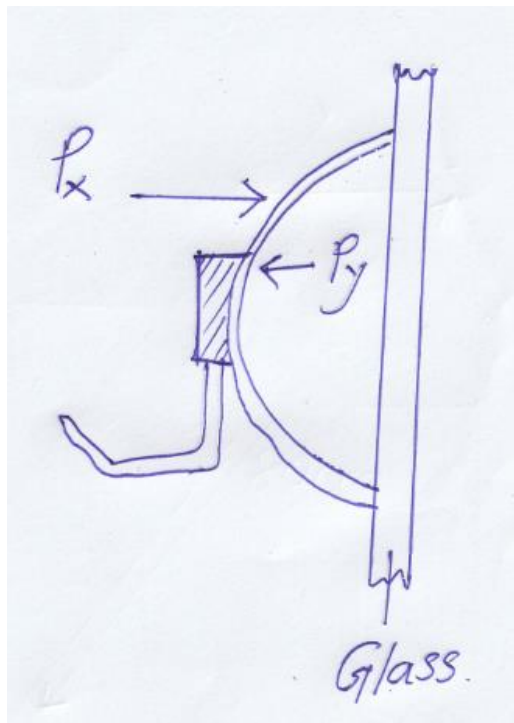
$P_y = \dots\dots\dots$

$= \dots\dots\dots$

Therefore the exerted on the is than the exerted by the

Therefore the will stay attached to the without

Action of rubber sucker

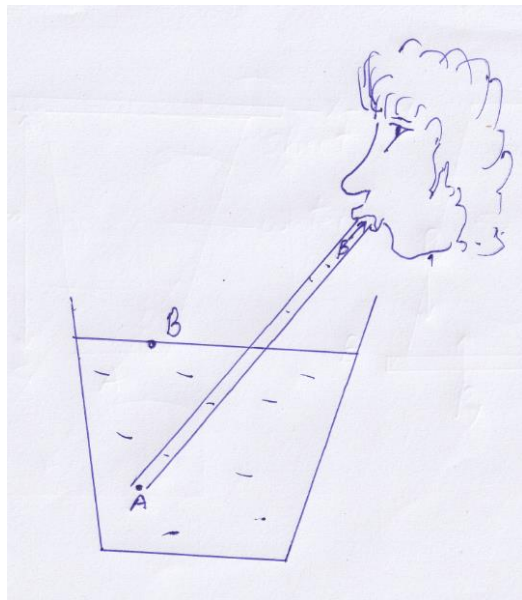


When the is against a, the between the and the will

Therefore the between the and the will be than the

Therefore the will be towards the and will

Drinking with a straw



Pressure at will be the

Pressure at will be the and the exerted by the

When, the inside the, will be taken into the

Therefore the at will

Therefore there will be pressure at than the pressure at

Therefore the will move into the