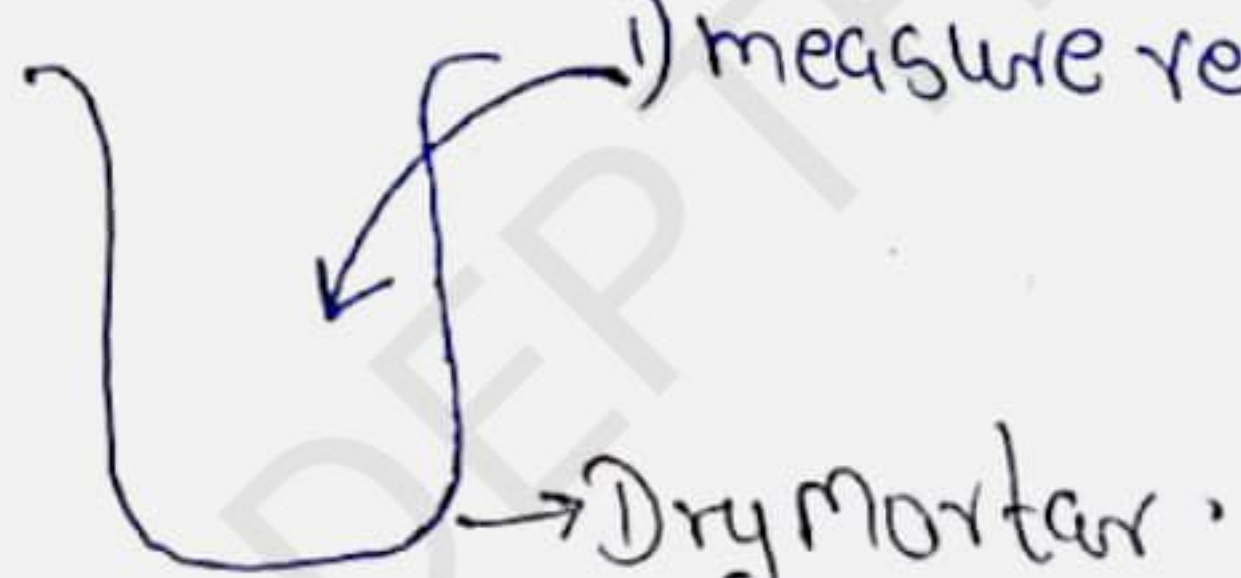


Preparation of Emulsion

① Dry Gum Method $\Rightarrow$

i) measure req. quantity of oil.

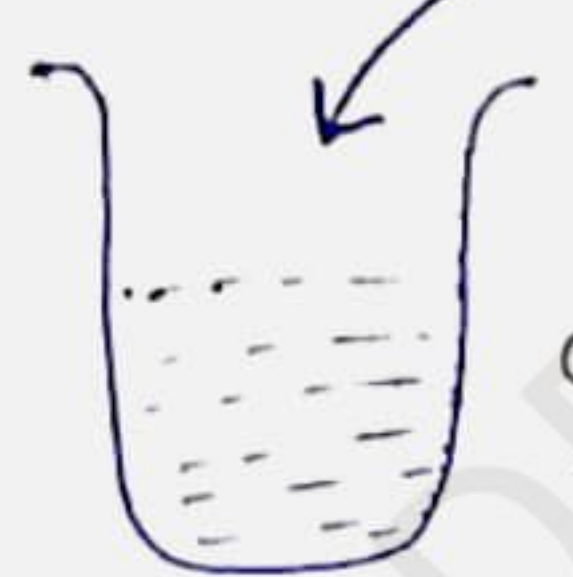


Dry Mortar.

[DEPTH OF BIOLOGY]



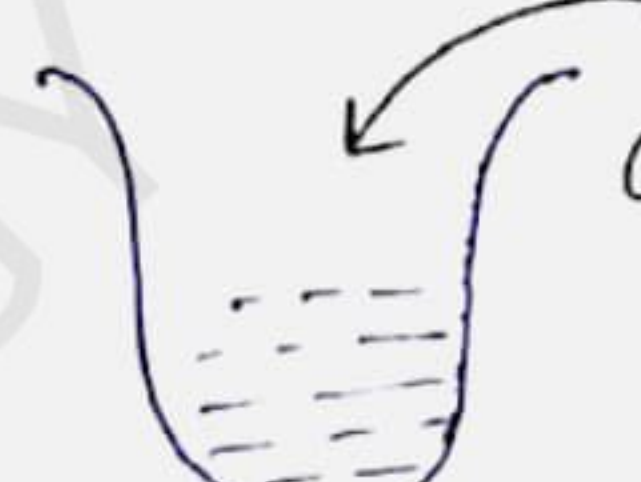
Calculated quantity of Gum Acacia add with rapid titration



Now the ppt. become white or Nearly white.

With rapid titration Until clicking sound occur.

add req. quantity of H_2O .



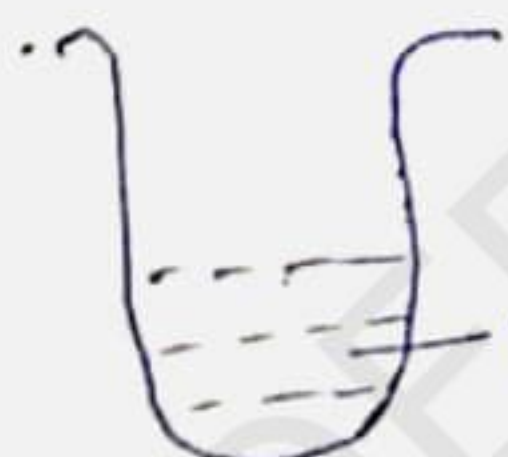
Now the product Called Primary Emulsion. $\rightarrow$ Add more H_2O to produce req. Vol.

② Wet Gum Method $\Rightarrow$

[DEPTH OF BIOLOGY]

Calc. the quantity of $\begin{cases} \text{oil.} \\ \text{H}_2\text{O} \\ \text{Gum} \end{cases}$ req. for Preparation of Primary emulsion

i) Add Gum Acacia + H_2O $\Rightarrow$ form Mucilage.



Mortar.

add req. quantity oil in small portion with rapid titration.

Primary emulsion $\Leftarrow$ & ppt. become white or Nearly white.

Add more H_2O in small portion with titration to produce req. Vol.

Mix thoroughly as to form a uniform emulsion

Transfer emulsion in bottle, label & dispense

[DEPTH OF BIOLOGY]

③ Bottle Method $\Rightarrow$ for Volatile & Non-~~volatile~~ Viscous oil.

$\Rightarrow$ Measure quantity of oil & transfer into flask.

oil. $\rightarrow$ Add Gum acasia. $\Rightarrow$ Now shake the flask
Untill gum & oil mix
properly.

Shake the
mix. Vigorously $\Leftarrow$ Add water $\swarrow$
to form a Primary
Emulsion.

Add more
H₂O to
make up
req. Vol.

[DEPTH OF BIOLOGY]

[DEPTH OF BIOLOGY]