

⇒ Antiseptic V/s Disinfectant (Link).

Bacteriostatic

↓
retard
growth

[DEPTH OF BIOLOGY]

Bacteriocidal.

↓
Kill.

→ Tubedilution & Agar Plate Method

— Phenol Coefficient Test (Rideal Walter)

— Cup plate Method.

— Chick Martin Test

— Ditch plate Method.

I. Tube dilution & Agar Plate Method. ⇒

In Test tube or Agar plate.

[DEPTH OF BIOLOGY]

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Agar media is filled

↓
Disinfectant (diff. conc. is incorporated)

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Microbes are Inoculated.

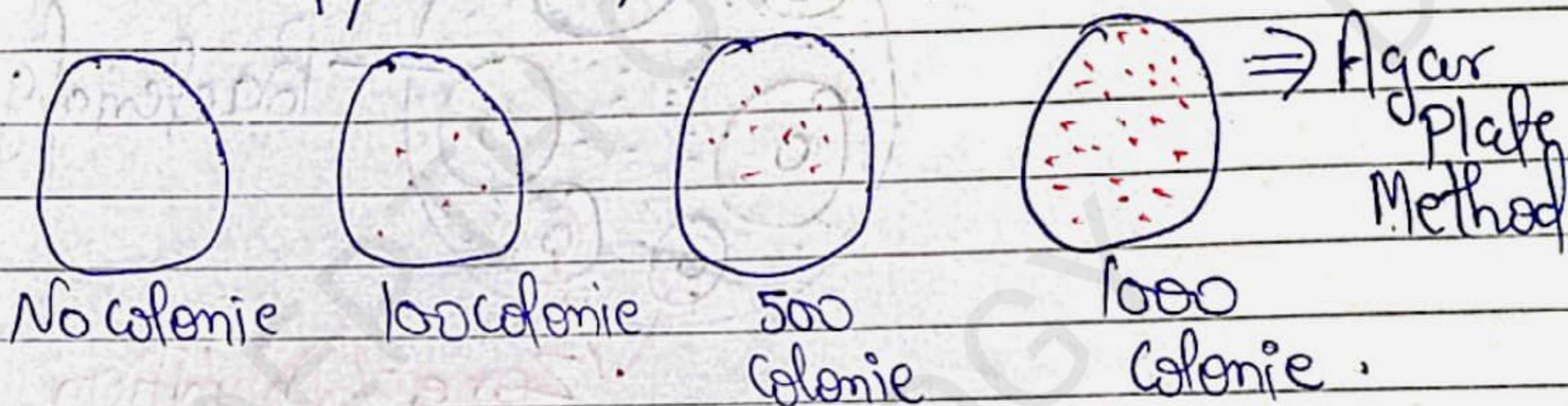
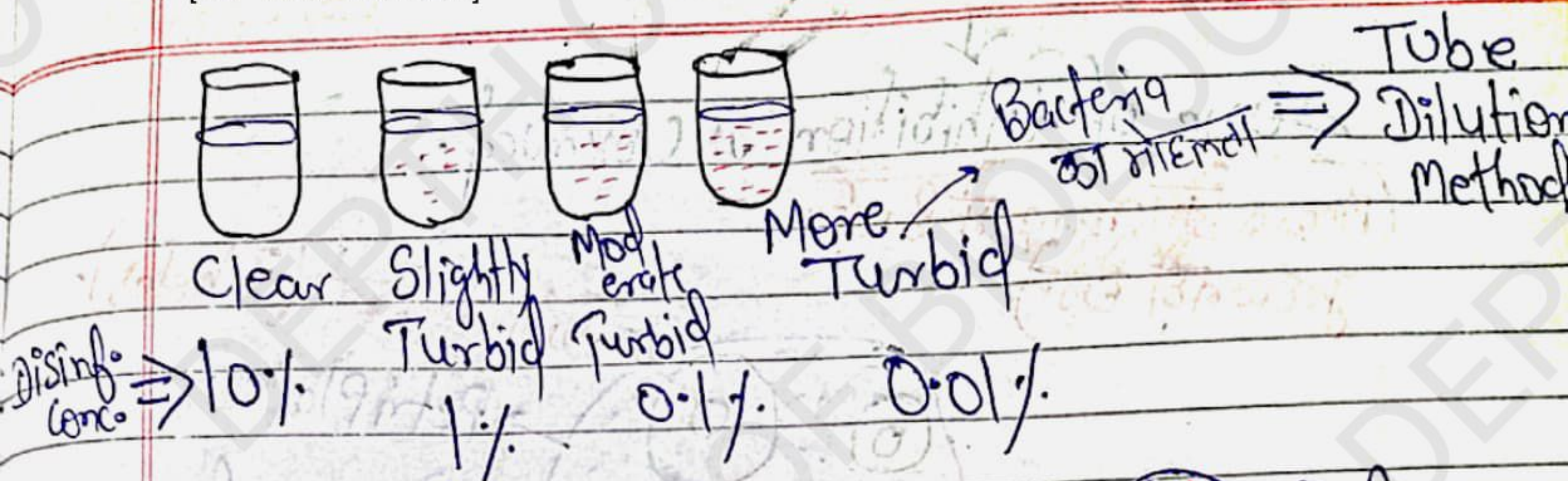
[DEPTH OF BIOLOGY]

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Incubate for 24-48 Hours.

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Check Turbidity in Test tube

Or Colonies in Agar Plate.

[DEPTH OF BIOLOGY]



② Cup-Plate Method \Rightarrow

[DEPTH OF BIOLOGY]

Agar is melted & cooled at 45°C

Inoculate with \Downarrow Test Microorg.

\Downarrow
Pour whole media into petridish

\Downarrow
Make it solidify

\Downarrow
With the help of Cork borer scoop out holes (about 9mm diameter)

\Downarrow
Put disinfectant volume directly into hole.

[DEPTH OF BIOLOGY]

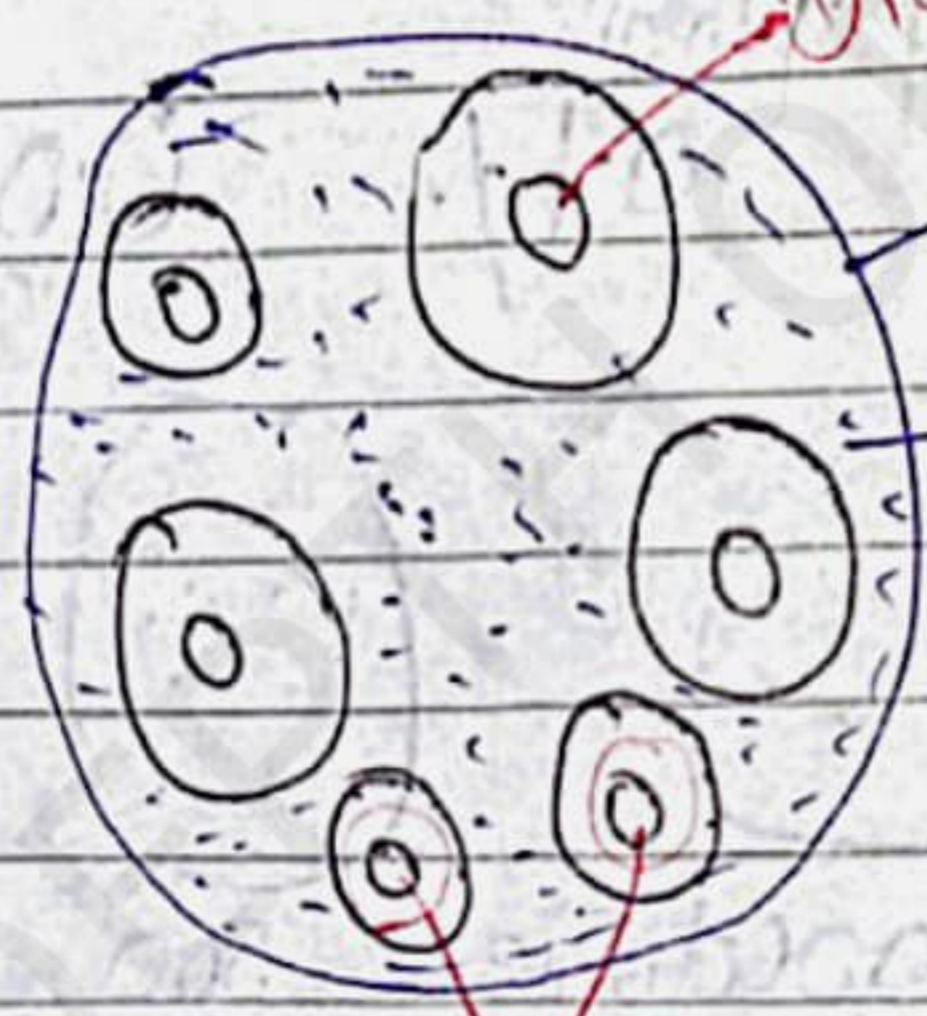
\Downarrow
2-3 day & Incubate at 35°C

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Zone of Inhibition is Observed.

(Means is range of back growth etc)

Disinfectant (in holes).

[DEPTH OF BIOLOGY]



Petri Plate

Bacterial growth

Zone of Inhibition

③ Ditch-Plate Method ⇒

Prepare an Agar Plate

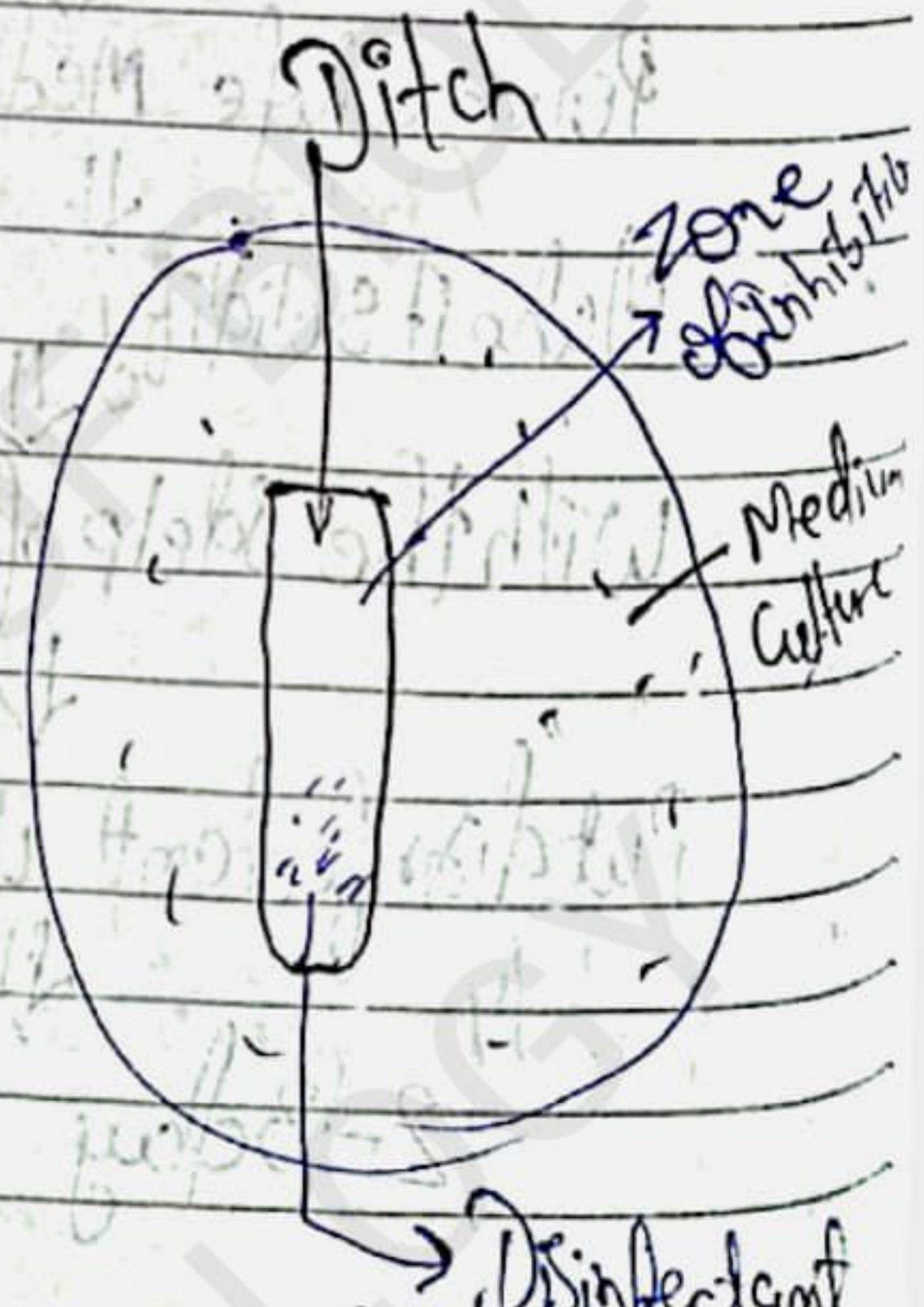
[DEPTH OF BIOLOGY]

↓
Make it solidify & Make ditch (खाँक)

↓
Put disinfectant into ditch.

↓
Incubate for 1-2 Days

↓
Width of Zone of Inhibition indicate
Anti Microbial Activity



[DEPTH OF BIOLOGY]