Quantative Measurement of Bacteria Growth.

- After Inoculation of Bacteria into Medium under suitable condition grow at very rapid rate.

[DEPTH OF BIOLOGY]

- For Calculation of Bacteria we do following procedure ⇒

Total Count	Viable Count
- Measure all Bacteria either living or Died.	- It Measure only living Bacteria Count which produce colony on a suitable Medium.

[DEPTH OF BIOLOGY]

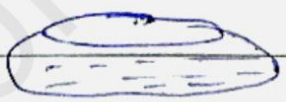
* Total Count ⇒

- Direct Method → Total Number of Bacteria & its Growth is calculated directly by counting the no. of Colonies by using diff. techniques.

*) Counting Chamber Method ⇒

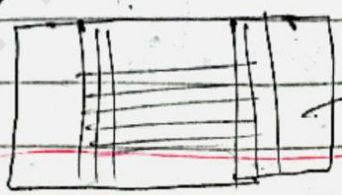
(a) Hemocytometer → Used for Prokaryotes or Eukaryotes.

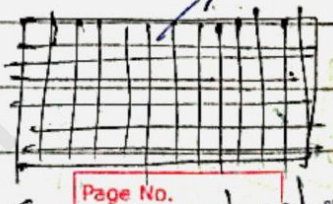
(b) Sample Media →



Hemocytometer →

[DEPTH OF BIOLOGY]





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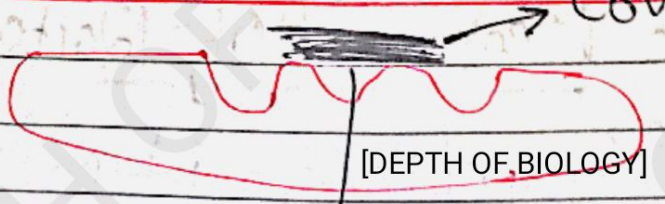
60 approx bact. grow in each Box.

Date ___/___/___



Chamber holding Bacteria.

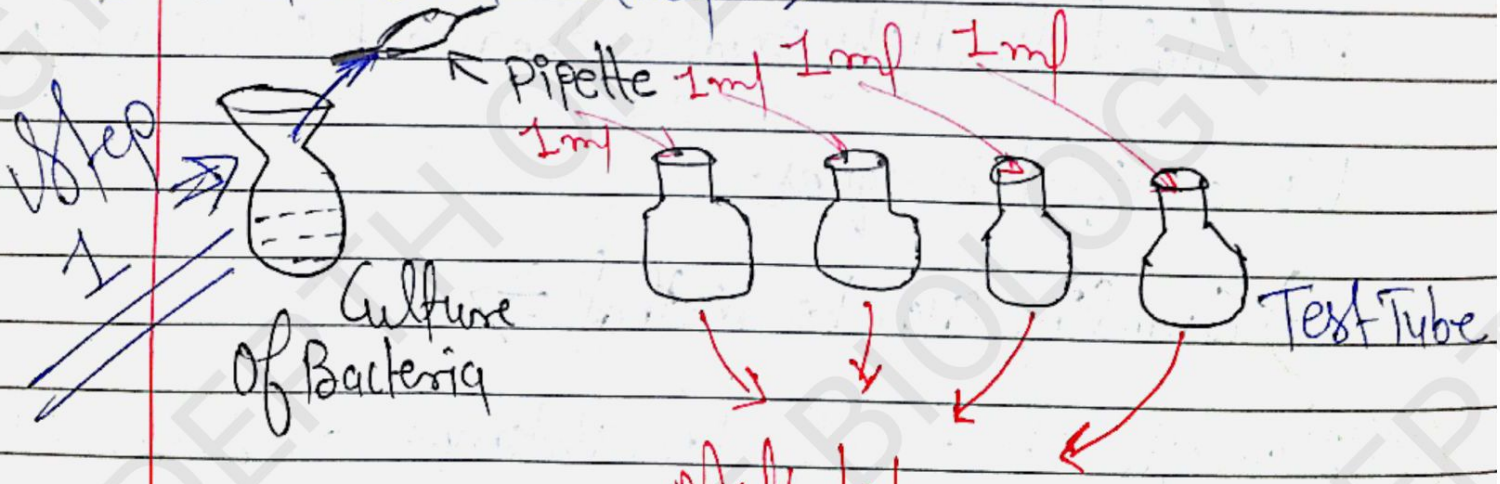
(c) Colony Counter Chamber →

Advantage ⇒ Easy or Simple way to calculate.

Quick method → Inexpensive.

Viable Count ⇒

(a) Plate Count Method ⇒



Step 1 ⇒

Make 1:10

1ml → Culture Soln.

9ml → distilled H_2O.

Step 2 ⇒ Mix the Culture Media in Agar Plate by rotating

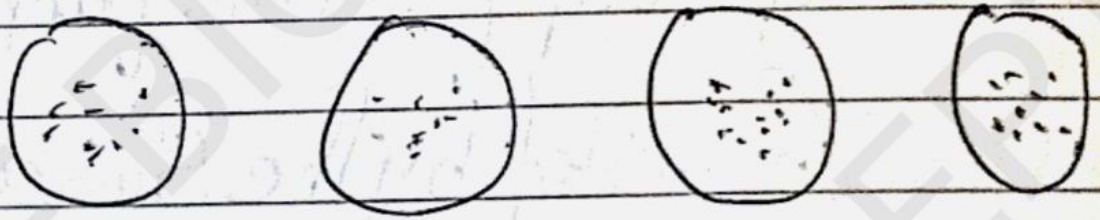
Date ___ / ___ / ___

Step3 → Incubating Them.

Step 4 ⇒

Count Plate Containing

30-300 Colonies



Step 5 ⇒

Calculate Number of Colonies X Dilution of Sample.

⇒ No. of Bacteria / ml.