

Stratification of Lake

(Bank of lake)
Littoral zone

Shallow zone
Marshy zone
Edge effect:
Maxi diversity

$P=R$
Ecotone

- ① Littoral zone
- ② Limnetic zone
- ③ profundal zone

$$\frac{P}{R} = \frac{O_2}{CO_2}$$

Free floating \Rightarrow (Wolffia, Eicchornia, Pistia)

LIMNETIC ZONE

photosynthesis zone $P > R$

Submerged
phytoplakton's

Vallisneria
or
Hydrilla

$\frac{P}{R} = \frac{\text{photosynthesis}}{\text{Respiration}}$
in micro / Hetero
Rooted Submerged

PROFUNDAL ZONE
or

$$P < R$$

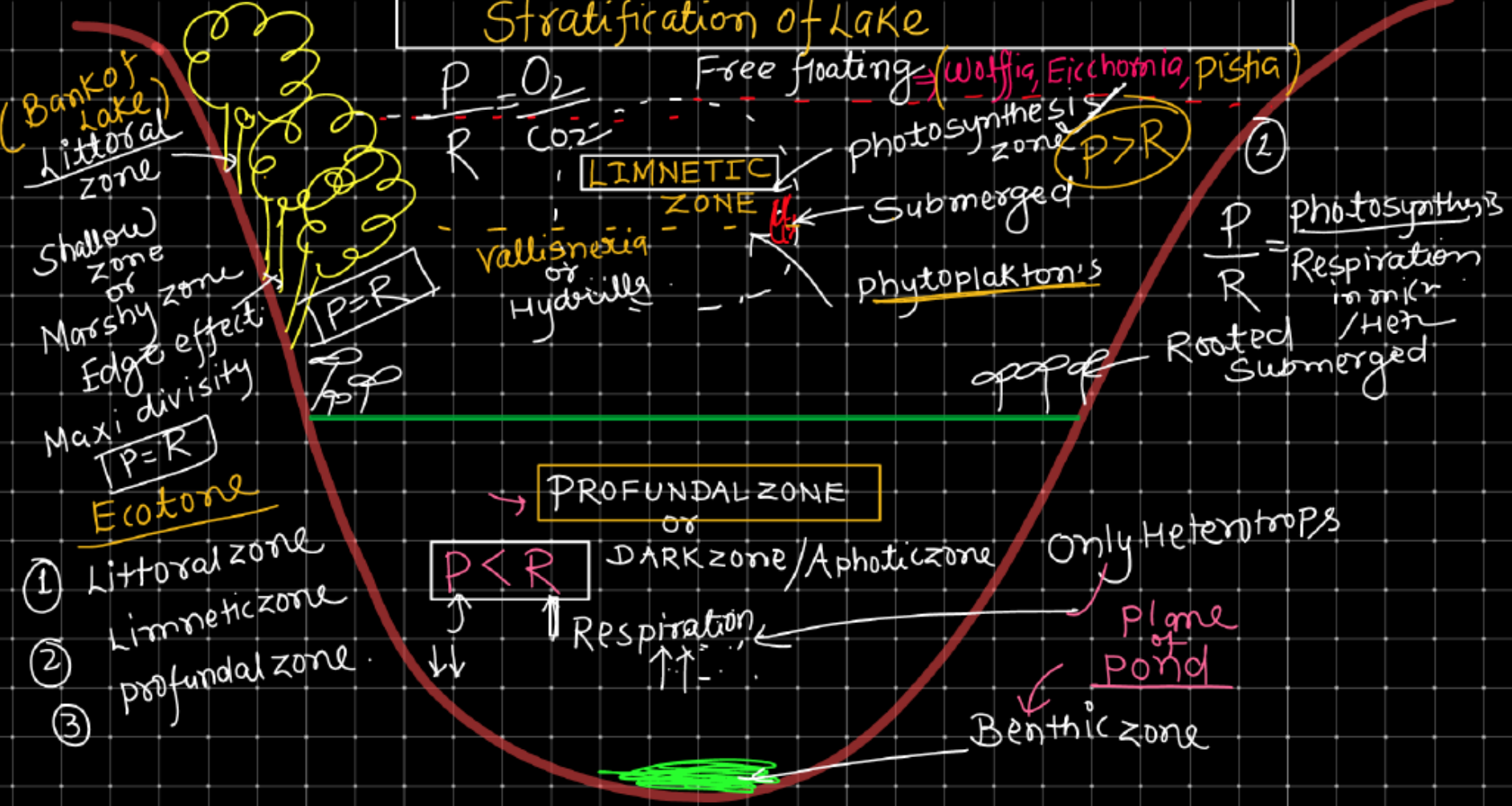
DARK zone / Aphotic zone

Only Heterotrophs

Respiration

Plane of pond

Benthic zone



ECOTONE

It is found in
Littoral zone /

⇒ Overlapping Area and Transition zone
b/w two organism

Lake Stratification

$$\frac{P}{R} = \frac{\text{photosynthesis}}{\text{Respiration}}$$

physiognomy

⇒ External Apper of community.

- ① यादव वस्ती ✓
- ② हरिजन वस्ती ✓
- ③ अन्सारी वस्ती ✓

✓ dominant species community
eg. ✓ conifer
Gymnosperm

Birth Rate

Biotic potential / (Natality) Fertility

$$\text{Birth Rate} = \frac{\text{Total NO. of birth}}{\text{Initial Population}}$$