

CLASS 11

BIOLOGY

REVISION NOTES

Class 11 Biology Chapter 12 Respiration in Plants – Revision Notes

Quick revision notes for Class 11 Biology Chapter 12 (Respiration in Plants). These Class 11 Biology Chapter 12 notes are ideal for quick revision just before exams.

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Class 11 Biology Chapter 12 – Solutions and Important Questions

Quick revision notes for Class 11 Biology Chapter 12 (Respiration in Plants). These Class 11 Biology Chapter 12 notes are ideal for quick revision just before exams.

Glycolysis

Cytoplasm; glucose $\rightarrow$ 2 pyruvate; net 2 ATP, 2 NADH.

Fermentation

Alcoholic (yeast: ethanol+CO₂) or lactic acid; net 2 ATP; incomplete oxidation.

Aerobic Respiration

Krebs cycle (mitochondrial matrix): Acetyl CoA $\rightarrow$ CO₂+NADH+FADH₂+ATP.

ETS (inner mitochondrial membrane): oxidative phosphorylation, O₂ final acceptor, ~36-38 ATP total.

RQ

RQ=CO₂ evolved/O₂ consumed; =1 (carbs), <1 (fats/proteins), >1 (organic acids).

One-Line Summary

Cellular respiration breaks down glucose via glycolysis, and either fermentation (anaerobic, low ATP yield) or the Krebs cycle plus electron transport chain (aerobic, high ATP yield via oxidative phosphorylation with oxygen as final electron acceptor).

Class 11 Biology Chapter 12 – Solutions and Important Questions

Need full answers or more practice? See the [Class 11 Biology Chapter 12 Solutions](#) and [Class 11 Biology Chapter 12 Extra Questions](#).

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