

These processes work together, ensuring organisms have both the materials and energy needed for growth, repair, and daily functioning.

Quick Revision Notes

- Nutrition: obtaining, processing food.
- Autotrophs make own food; heterotrophs consume others.
- Photosynthesis: $\text{light} + \text{CO}_2 + \text{water} \rightarrow \text{glucose} + \text{oxygen}$.
- Performed by autotrophs.
- Respiration releases energy from food.
- Aerobic (oxygen) or anaerobic (no oxygen).
- Occurs at cellular level.
- These processes ensure growth, repair, functioning.

Practice Questions

- 1 Discuss the difference between autotrophs and heterotrophs.
- 2 Write the photosynthesis equation.
- 3 Discuss the difference between aerobic and anaerobic respiration.
- 4 Discuss how nutrition and respiration work together.
- 5 Research a plant's photosynthesis process.
- 6 Explain one life process in your own words.