LO (F)

Importance of photosynthesis

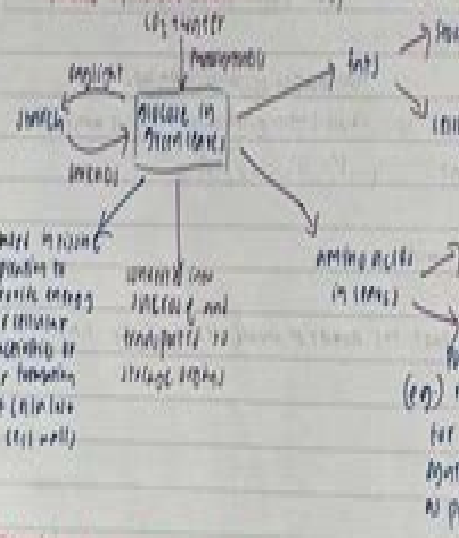
→ When plants carry out photosynthesis, carbohydrates are formed. Carbohydrates are then converted into fats, proteins and other organic compounds.
- This provides the source of food for animals that cannot make their own food.

→ Photosynthesis converts light energy into chemical energy, which is stored within the carbohydrate molecules. This becomes a source of energy for animals.

→ Coal, one of the fossil fuels, are formed from trees. When coal is burnt, stored energy from photosynthesis is released. This energy can be used to drive machinery and generate other forms of energy.

→ Photosynthesis removes carbon dioxide from the air and releases oxygen. In this way the air constantly purified, earth temp can be maintained.

Release in plant cells - LO (G)



Digestion of stored food in plants

- Cereal proteins, fats and starch stores are industrial products
- Plants have no digestive system but produce similar to animals.
- Cells in storage organs produce enzymes to digest stored food

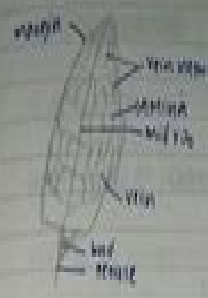
✓ starch $\xrightarrow{\text{amylase}}$ maltose $\xrightarrow{\text{maltase}}$ glucose

✓ proteins $\xrightarrow{\text{peptidase}}$ peptides $\xrightarrow{\text{peptidase}}$ amino acids

✓ fats $\xrightarrow{\text{lipase}}$ fatty acid and glycerol

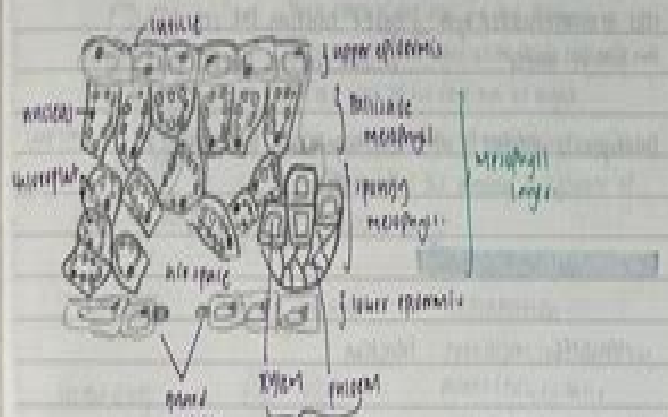
LO (H)

External structure of a leaf



structure	function
lamina	- large surface area to volume ratio to maximise absorption of sunlight and allow rapid diffusion of CO_2
petiole	- holds the lamina away from the stem - many or many may be present in all leaves.
vein network	- transports water and minerals ions to cells in lamina - transport manufactured food from lamina to other parts of plant - veins may be branching or parallel.

Internal structure of leaf



Upper epidermis

structure	function
single layer of cells	protects inner layer of cells
covered by a layer of waxy cuticle	- reduces transpiration of water from leaf - prevents entry of disease
cells do not contain chloroplasts and are transparent	allows light to penetrate into lower layers.

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