Biology Exam - Paper 6 Revision Notes

Enzyme activity lab

 $2H_2O_2(I) \rightarrow 2H_2O(I) + O_2(g)$

This reaction can be catalysed by an enzyme (catalase) or by a nonbiological catalyst (Manganese IV oxide)

- Put 3cm² of hydrogen peroxide in a test tube.
- Add fresh potato strips and shake gently.
- Keep your thumb on top of the test tube, or use a stopper, to retain the gas.
- Do the "glowing splint" test → the splint relights

Positive control: repeat the original experiment using manganese IV oxide

→ bubbles of oxygen form

Conclusion: the reaction happens because of a catalyst

1st negative control: repeat the original experiment using <u>boiled</u> potato strips → nothing happens

Conclusion: enzymes denature when they are at high temperatures 2nd negative control: repeat the original experiment using water instead of hydrogen peroxide — nothing happens

Conclusion: hydrogen peroxide is the substrate

3rd negative control: repeat in a cold environment, the effervescence should be slower

Conclusion: enzymes don't work as well in the cold

Chemical tests:

-starch: add a few drops of iodine solution, a positive result (i.e. starch is present) is a deep blue-black colour, a negative result is orange.
-reducing sugars (e.g. glucose): Benedict's reagent, then the mixture is heated for 2 to 3 minutes. Positive result is an orange/brick-red colour, negative result is blue (the colour of the Benedict's reagent).
-proteins: add a few drops of Biuret reagent, a positive result is a mauve/purple colour.

-fats: the emulsion test: ethanol is added to the mixture, this is poured into a test tube with an equal number of distilled water, a positive result a milky-white emulsion forms.

Investigating the factors necessary for photosynthesis

Chlorophyll - with a variegated leaf...

- Leaf is boiled in water for 2 minutes: to break down cell walls, denature the enzymes and allow for easier penetration by ethanol.
- Warmed in ethanol until leaf is colorless: to extract the chlorophyll, which would mask observation (you need to see a color change), chlorophyll is soluble in ethanol but not water.
- 3) Dipped in water briefly: to soften leaf

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