

Paper 1 Biology Practicals A-level Questions & Answers 100% Answers!!

1. Investigation into the effect of a named variable on the rate of an enzyme-controlled reaction

a, b, c, f, l

2. Preparation of stained squashes of cells from plant root tips; set-up and use of an optical microscope to identify the stages of mitosis in these stained squashes and calculation of a mitotic index

d, e, f

3. Production of a dilution series of a solute to produce a calibration curve with which to identify the water potential of plant tissue

c, h, j, l

4. Investigation into the effect of a named variable on the permeability of cell-surface membranes

a, b, c, j, l

5. Dissection of animal or plant gas exchange or mass transport system or of organ within such a system

e, h, j

6. Use of aseptic techniques to investigate the effect of antimicrobial substances on microbial growth - ANSWER

Method In this method the named variable is temperature

Investigation into the effect of a named variable on the rate of an enzyme-controlled reaction

Any variable can be tested such as:

the temperature, pH, concentration of the substrate, and the concentration of the enzyme. - ANSWER

1. Make two control samples:

- Take two flat bottomed tubes.
- Add 5cm³ of milk suspension to each tube.
- Add 5cm³ of distilled water to one tube- this control will indicate the absence of enzyme activity.
- Add 5cm³ of hydrochloric acid to the other- this control indicates the colour of a completely hydrolysed sample.

2. Take three test tubes and measure 5cm³ milk into each. Place in water bath at 10°C for 5 minutes to equilibrate.

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