

## AQA A level Biology Revision questions and answers 100% verified.

Describe how you would use a biochemical test to show that a solution contained a non-reducing sugar, such as sucrose. [3] - correct answer. ,first reducing sugars test; boil with dilute HCl acid then Neutralise with NaHCO<sub>3</sub>, add benedict and heat to 95 degrees C brick red ppt forms if reducing sugar is present

Describe a chemical test you could carry out to show that a piece of coconut contains lipids. [3] - correct answer. (Crush in) ethanol / alcohol; Add (to) water (Order of adding is critical for this point); Emulsion / white colour

Explain what is meant by a polymer. [1] - correct answer. Molecule) made up of many identical/similar molecules/monomers/ subunits;

Name the reaction which occurs when starch is broken down into maltose. [1] - correct answer. Hydrolysis

What is the formula for lactose? [2] - correct answer. C<sub>12</sub> ; H<sub>22</sub>O<sub>11</sub>

Describe how β-glucose molecule differs from a molecule of α-glucose. [1] - correct answer. H at top right end (instead of OH) / OH at bottom (carbon 1)

Show two ways in which the structure of cellulose is different from the structure of starch. [2] - correct answer. Starch 1,4 and 1,6 bonds / branching Cellulose 1,4 bonds / no 1,6 bonds / straight; starch All glucoses /monomers same way up cellulose Alternate glucoses upside down; starch Helix / coiled/compact cellulose Straight; Starch monomer Alpha glucose Cellulose monomer Beta glucose

Describe the structure of starch and explain how its structure is related to its function. [3] - correct answer. Formed from α glucose; Joined by condensation/ by the removal of a water molecule/ glycosidic bonds; Between (carbons) 1 and 4 (and 1 and 6); Coiled chain; compact; (Allows) storage of large amount in a small space; Insoluble so has no effect on osmosis/water potential; Branches; (A)llows) rapid breakdown/release of glucose / hydrolysis;

# Biology Revision Questions And Answers

**RS Peters**



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