

## **AQA BIOLOGY EXAM STYLE QUESTIONS WITH CORRECT DETAILED ANSWERS 2023**

Explain the structure of phospholipids that makes them able to form the bilayer of cell membranes - Phospholipid heads are hydrophilic and the tail is hydrophobic.

They form a double layer with the hydrophilic heads facing the water and the hydrophobic tail facing inwards.  
The center of the membrane bilayer is hydrophobic so water soluble substances cant easily pass through.

Describe the structure of a cellulose molecule and explain how cellulose is adapted for its function in cells. - 1. made from  $\beta$ -glucose;  
2. joined by condensation / removing molecule of water / glycosidic bond;  
3. 1 : 4 link specified or described;  
4. "flipping over" of alternate molecules;  
5. hydrogen bonds linking chains / long straight chains;  
6. cellulose makes cell walls strong / cellulose fibres are strong;  
7. can resist turgor pressure / osmotic pressure / pulling forces;  
8. bond difficult to break;  
9. resists digestion / action of microorganisms / enzymes;

Why is the genetic code described as being universal? - (In all organisms / DNA,) the same triplet codes for the same amino acid;

Accept codon / same three bases / nucleotides

Mutation 1 leads to the production of a non-functional protein. when mutatio occurson the exons

Explain why.

\_\_\_\_\_ - (Mutation) changes triplets / codons after that point / causes frame shift;

Accept changes splicing site

Ignore changes in sequence of nucleotides / bases

2. Changes amino acid sequence (after this) / codes for different amino acids (after this);

Accept changes primary structure

# Aqa Biology Exam Style Questions Answers Chapter 13

**Christian Drosten**



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