



CHEMISTRY ONLINE
— **TUITION** —

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BIOLOGY

BIOLOGICAL MOLECULES

LEVEL & BOARD:	AQA (A - LEVEL)
TOPIC:	Monomers & Polymers
PAPER TYPE:	Solution - 1
TOTAL QUESTIONS	02
TOTAL MARKS	10

Monomers and Polymers

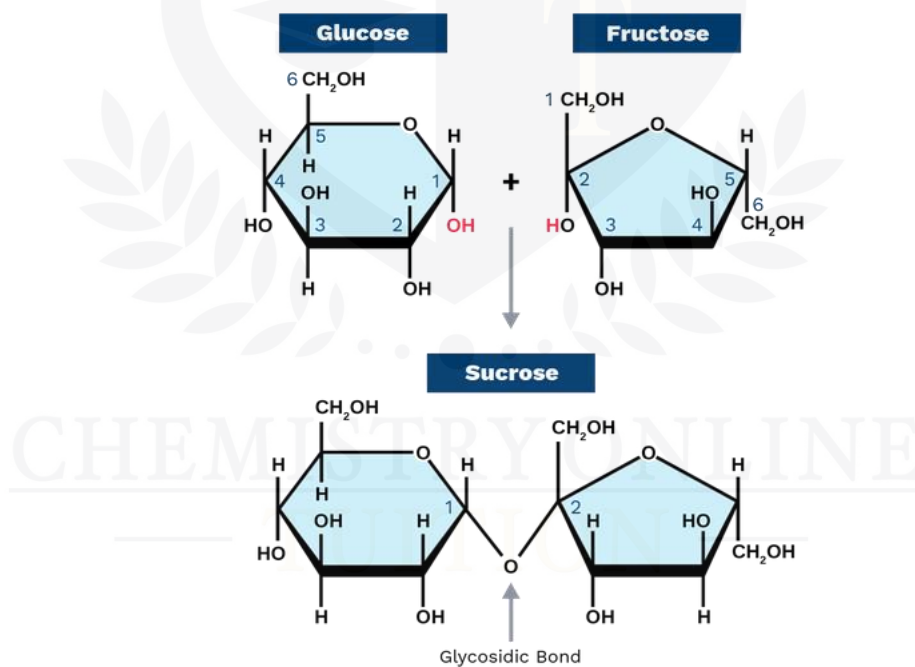
(Solutions)

1.

(a) A condensation reaction joins two molecules together with the formation of a chemical bond and involves the elimination of a molecule of water. A hydrolysis reaction breaks a chemical bond between two molecules and involves the use of a water molecule.

Example:

- vinyl chloride (which polymerizes into polyvinyl chloride or PVC)
- glucose (which polymerizes into starch, cellulose, laminarin, and glucans)
- amino acids (which polymerize into peptides, polypeptides, and proteins)



2.

(a)

Letter	Statement
B	is a monomer in an enzyme's active site
D	is a monomer in cellulose
C	is produced during photosynthesis and respiration
B	forms a polymer that gives a positive result with a biuret test

3.

(a)

Monomers are atoms or small molecules that bond together to form more complex structures such as polymers. There are four main types of monomer, including sugars, amino acids, fatty acids, and nucleotides.

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- Founder & CEO of Chemistry Online Tuition Ltd.
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