

2 Biological molecules – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

2.1 (a) iodine test \ (b) biuret test \ (c) Benedict's test.

2.2 A reducing sugar is present.

2.3 (a) a small single unit / building block \ (b) a long molecule made of many monomers joined together.

2.4 (a) a glycosidic bond \ (b) condensation \ (c) water.

2.5 Glycogen —energy store in animals; cellulose —builds the plant cell wall (support).

2.6 It is compact and insoluble, so it stays inside the cell and does not pull in water by osmosis.

2.7 Cellulose is made of straight chains that pack tightly side by side into strong fibres —ideal for supporting the cell wall. Starch is made of coiled and branched chains that are compact and easily broken down to release glucose —ideal for storage.