

KS3 Biology — Answers

Section 1 — Cells and Respiration

Pages 1-2 — The Microscope

- Q1**
 A — Eyepiece lens
 B — Body tube
 C — Rough focusing knob
 D — Fine focusing knob
 E — High and low power objective lenses
 F — Stage
- Q2**
 a) The rough focusing knob and the fine focusing knobs.
 b) i) The stage.
 ii) The slide is clipped to the stage / held in place by clips.
 c) To magnify the object.
- Q3**
 a) The mirror.
 b) The lowest powered objective lens.
 c) i) The rough focusing knob.
 ii) She should move it down to just above the slide.
 d) i) The fine focusing knob.
 ii) Away from the slide.
 iii) To make sure the lens and slide don't crash together.
 e) She could switch to using a higher powered objective lens.

Pages 3-5 — Cells

- Q1**
 a) nucleus
 b) cell membrane
 c) cell wall
 d) mitochondria
 e) vacuole
 f) cytoplasm
 g) chloroplast

Both cells have	Only plant cells have
1) cell membrane	1) cell wall
2) nucleus	2) chloroplasts
3) cytoplasm	3) vacuole
4) mitochondria	

- Q2** The nucleus.
Q3 The mitochondria.
Q4 Chloroplast — contains chlorophyll for photosynthesis.
 Vacuole — large space filled with sap.
 Mitochondria — where most of the reactions for aerobic respiration take place.
 Cytoplasm — jelly-like stuff where most of the reactions happen.
 Nucleus — controls what the cell does.
 Cell membrane — thin skin around the cell.
 Cell wall — outer coating which gives support to the cell.

- Q5**
 a) Because they are too small to see with just your eyes.
 b) To make the parts of the cells easier to see.
 c)

	Cytoplasm	Nucleus	Cell wall	Vacuole
Cheek cell	✓	✓		
Leaf mesophyll cell	✓	✓	✓	✓

- Q6**
 a) It holds the cell together and controls what goes in and out of the cell.
 b) i) E.g. a cell wall is a rigid outer coating but a cell membrane is just a thin skin. / The cell wall only provides support for the cell but the cell membrane also controls what goes in and out of the cell.
 ii) cellulose
- Q7**
 a) Having only one cell.
 b) i) E.g. has a flagellum / contains chloroplasts
 ii) E.g. *Euglena* live in water, so having a tail-like structure helps them to swim. / Having chloroplasts means that *Euglena* can make their own food.

Page 6 — Cell Organisation

- Q1**
 a) cell, tissue, organ, organism
 b) yes
- Q2**
 a) Because there is a lot of carbon dioxide inside the cell but not much outside the cell.
 b) The cell membrane.
 c) The oxygen molecules will move into the cell because there is lots of oxygen outside the cell but not much inside the cell.

Pages 7-11 — Respiration

- Q1** Inside the cells in your body **glucose** is used to produce **energy**. This process is called **respiration**. All living things need energy for processes such as **movement, growth and reproduction**.
- Q2**
 a) The process of releasing energy from glucose.
 b) Respiration takes place in all types of living organisms.
 c) Aerobic and anaerobic.
Q3
 a) Aerobic and anaerobic should both be ticked.
 b) Aerobic should be ticked.
 c) Aerobic and anaerobic should both be ticked.
 d) Aerobic should be ticked.
- Q4**
 a) Glucose and oxygen.
 b) Carbon dioxide and water.
 c) Energy is released, which is used for e.g. building proteins, muscle contraction and keeping warm.
 d) $B + C \rightarrow A + D + E$
 e) In the mitochondria.
- Q5**
 glucose → lactic acid + energy
 glucose → carbon dioxide + ethanol + energy
- Q6**
 a) She can use the sugar to produce more energy through respiration.
 b) Anaerobic respiration is respiration without oxygen.
 c) She is starting to respire anaerobically because she can't get enough oxygen to her muscle cells.
 d) Anaerobic respiration produces lactic acid which is starting to build up in Tia's muscles.
- Q7**
 a) The yeast need sugar to respire.
 b) The yeast must respire anaerobically to make ethanol, so they must be kept away from the oxygen in the air.
 c) fermentation

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