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Question 1

- 01.1 organ
- 01.2 (Lines drawn correctly)
- 01.3 transpiration
- 01.4 lignin
- 01.5 So the light can get to the cells underneath.
- 01.6 stomata, guard cells
- 01.7 vacuole
- 01.8 active transport
- 01.9 mitochondria

Question 2

- 02.1 It's a physical barrier that stops germs.
- 02.2 63/210
- 02.3 at pH1 = 187, at pH5 = 31, more = 154
- 02.4 No idea, they just guessed.

Question 3

- 03.1 (Lines drawn correctly)
- 03.2 1968
- 03.3 it went up and then down again.
- 03.4 The percentage went down.
- 03.5 (Parents were worried their children would get condition X - box ticked)
- 03.6 (Have the research peer reviewed - box ticked)
- 03.7 because he was paid for it.

Question 4

- 04.1 For starch, add iodine and it goes black. For sugar, add Benedicts and heat it and it goes red.
- 04.2 amylase, sugar
- 04.3 (The type of bread - box ticked)
- 04.4 White bread is fastest. Wholemeal is slowest.
- 04.5 He did it again and worked out the mean.
- 04.6 58
- 04.7 (Each person's sense of taste is different - box ticked)

Question 5

- 05.1 (Ionising radiation, Viruses - boxes ticked)
- 05.2 (Mitosis - box ticked)
- 05.3 grow, replicate
- 05.4 (40% - box ticked)
- 05.5 (Chromosomes are pulled to each end of the cell - box ticked)
- 05.6 cell membrane
- 05.7 $50 / 800 = 0.0625$

05.8 cells, people
05.9 a fake pill

Question 6

06.1 same size potato, same amount of time
06.2 dry it
06.3 scales
06.4 (0.1 g - box ticked)
06.5 (D - box ticked)
06.6 $1.1 / 4.9 \times 100 = 22.4\%$
06.7 (Line graph - box ticked)
06.8 water, osmosis, wall
06.9 0.2 mol/dm^3

Question 7

07.1 (Arteries - box ticked)
07.2 It pumps the blood for them. To get oxygen around.
07.3 it gives them oxygen.
07.4 statins
07.5 It opens the artery. Blood can flow.
07.6 Smoking makes you more likely to get heart disease. Disease H is the worst one to get.
07.7 (y-axis not labelled, scale is wrong going up in 14s, bars F,G,H are plotted at 20, 29, 70 but on the wrong scale, bars are labelled)
07.8 eating fatty food

Question 8

08.1 nucleus
08.2 (A, D and E - box ticked)
08.3 They cant digest food properly because their enzymes dont work. So they dont get enough energy from food and cant gain weight.
08.4 They have a big surface, thin walls and lots of blood.
08.5 You get tired more easy.