## Fatima Begum (ID: 24105)

- **01.1** Organ
- **01.2** Palisade mesophyll  $\rightarrow$  Contains the most chloroplasts. Spongy mesophyll  $\rightarrow$  Contains many air spaces.
- **01.3** Transpiration
- **01.4** Lignin
- **01.5** So light gets to the cells below. For photosynthesis.
- **01.6** stomata, guard cells
- **01.7** vacuole
- **01.8** active transport
- 01.9 mitochondria
- **02.1** It's a barrier.
- **02.2** 63/210 which is 3/10.
- **02.3** 187, 31, 156.
- **02.4** He took the average of the pH1 and pH3 results.
- **03.1** Platelets  $\rightarrow$  Help clot the blood. White blood cells  $\rightarrow$  Produce antibodies.
- **03.2** 1968
- **03.3** It went up, stayed flat, then went down.
- **03.4** It decreased.
- **03.5** Parents were worried about condition X.
- **03.6** Have the research peer reviewed.
- **03.7** The author was paid.
- **04.1** Iodine for starch (goes black). Benedicts for sugar (goes red).
- **04.2** amylase, sugar
- **04.3** The type of bread
- **04.4** White bread is fastest. Wholemeal is slowest.
- **04.5** Did repeats. Calculated a mean.
- **04.6** 58
- **04.7** Each person's sense of taste is different.
- **05.1** Ionising radiation, Viruses
- 05.2 Mitosis
- **05.3** grow, replicate
- **05.4** 40%
- **05.5** Chromosomes are pulled to each end of the cell.
- 05.6 cell membrane
- **05.7** 50 / 800 = 0.0625 mm. 0.0625 x 1000 = 62.5 um.
- 05.8 cells, people
- 05.9 Placebo
- **06.1** size of potato
- **06.2** dry it

- **06.3** a balance
- **06.4** 0.1 g
- **06.5** D
- **06.6**  $1.1 / 6.0 \times 100 = 18.3\%$
- **06.7** Line graph
- **06.8** water, osmosis, permeable
- **06.9** I'm not sure.
- **07.1** Arteries
- **07.2** Pumps blood around the body.
- **07.3** Gives them oxygen.
- **07.4** statins
- **07.5** Opens up the blood vessel.
- **07.6** Smoking is bad for your heart. Disease H is the worst.
- **07.7** [Student labels axis and scale correctly, but only plots bars F and G, leaving H blank]
- **07.8** Stress.
- **08.1** nucleus
- **08.2** A, D and E
- **08.3** They have less enzymes. So food isn't digested. So they don't get energy.
- **08.4** big surface area, thin walls, good blood supply
- **08.5** Less respiration. Less energy.