

Marks

Question 21 (8 marks)

Describe a first-hand investigation used to estimate the size of red blood cells on a prepared microscope slide.

8

In your description include:

- a list of equipment used;
- a safety precaution needed;
- the step-by-step method used;
- a scaled diagram of a red blood cell.

Diagram

Red Blood Cell.
X 400



equipment - Microscope, ~~prepared slide~~
prepared slide, ^{lamp} light, gloves
Safety precaution - gloves to prevent
blood from possible breakages infecting
students.

Method 1/ Set up microscope, adjusting light and mirror for optimum view.
2/ put on gloves
3/ place prepared slide on microscope platform, watching carefully wind the microscope as close to slide as possible without letting microscope touch the ~~slide~~ slide.
4/ Using low power bring microscope back up (whilst looking through microscope) to find blood cells
5/ Adjust fine focus in order to clearly view ^{cells}
6/ Switch to high power to view cells closer and in more detail.
7/ Adjust fine focus if required.
8/ using a micrograph estimate the blood cell size in micrometers (μm)