

Marks

**Question 20** (4 marks)

Outline how mitosis and cell differentiation assist in the maintenance of health.

4

Mitosis and cell differentiation assist in the maintenance of health because particular cells in the body, such as red blood cells and skin cells are constantly dying and must be reproduced through mitosis. ~~Cells~~ these cells are needed to be replaced constantly to maintain the health of the body. Cell differentiation is also important in the maintenance of health, as the different cellular functions ~~and~~ contribute to the overall functioning of an organism in different ways, specialising in particular roles. eg. Red blood cells important for carrying oxygen.