

Marks

Question 20 (4 marks)

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

4

Mitosis allows for damaged tissue cells to be replaced with healthy ones. The differentiation of cells within an organism allows for certain functions such as metabolic waste removal and gas exchange to take place. Without cell differentiation and mitosis, multicelled organisms would not be able to heal or have the necessary organs and systems to survive.