Marks

Question 20 (4 marks)

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

Most with the exception of cells such as nerve cells and cardiovascular cells,
most cells do not live for the Wentire life of the organism. In order
to maintain a full set of body cells which is required
for the maintenance of health, the body uses
mitosis to produce genetically identical capies of cells to
replace those which are destroyed of to make the organism to grow.
But in or dor to effectively carry out metabolic proresses
in the body cells must be appearlised for porticular
functions (ell differentiation allows the cells the produced
by mitosis to alter the expression of their
genetic material, allowing them to become specialised for
particular roles, in the body.