

Marks

Question 20 (4 marks)

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

4

mitosis assists the maintenance of health by...
producing genetically identical cells for growth and
repair of the body. A healthy organism will thus
have mitosis occurring to replace dead or damaged
cells.

cell differentiation can assist the maintenance of
health as cells become specialised to perform
specific tasks e.g. white blood cell, nerve cell. This
allows maximum efficiency and functioning and specific
cells deal after specific problems and do this good
at it as they are specialised. Health is maintained
as normal functioning is allowed to occur