

Marks

Question 20 (4 marks)

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

4

Mitosis is the process of cell division & hence.....
produces new cells that replace injured, dead
& damaged cells in the body. In cases of.....
infection, mitosis ~~can~~ rapidly occurs ~~in~~ to increase
the production of white blood cells that fight infection.
Cell differentiation has led to the production of
specialised cells including the various leucocytes
such as basophils, macrophages, phagocytes,
T-lymphocytes, B-lymphocytes, which aid in the
second & 3rd lines of defence ~~best~~ helping the
body to respond to infection & injury.