

Mitosis exam question

Q1. (a) How many pairs of chromosomes are there in a body cell of a human baby?

..... (1)

(b) Place the following in order of size, **starting with the smallest**, by writing numbers **1 – 4** in the boxes underneath the words.

Chromosome nucleus gene cell (1)

(c) For a baby to grow, its cells must develop in a number of ways.

Explain how each of the following is part of the growth process of a baby.

(i) Cell enlargement

..... (1)

(ii) The process of cell division by mitosis

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..... (3)

(d) Why is cell specialisation (differentiation) important for the development and growth of a healthy baby from a fertilised egg?

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..... (2)
(Total 8 marks)