

Mitosis exam question

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

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(1)

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

(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

.....

.....

(2)

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

For more information, contact the Office of the Vice President for Research and Economic Development at 319-273-2500 or research@uiowa.edu.

(2)

(2)
(Total 8 marks)