chro	mosome	nucleus	gene	cell	
For	a baby to grow	, its cells must develo	op in a number of way	/S.	
Ехр	lain how each	of the following is par	rt of the growth proce	ess of a baby.	
(i)	Cell enlarger	ment			
(ii)	The process of cell division by mitosis				
	, ia aall anaaial	ication (differentiation	a) important for the de	evelopment and growth of a	

## ٨

Mark	sche	emes				
1	(a)	23	1			
	(b)	chromosome nucleus gene cell 2 3 1 4	1			
	(c)	(i) any <b>one</b> from				
		(cells which are bigger) take up more space				
		(cells) have to get bigger or mature to divide	1			
		(ii) chromosomes duplicate <b>or</b> make exact copies of self				
		accept forms pairs of chromatids				
		nuclei divide  accept chromatids <b>or</b> chromosomes separate				
		identical (daughter) cells formed  accept for example, skin cells make  more skin cells <b>or</b> cells are clones	1			
(1	(d)	any <b>two</b> from	•			
		Differentiation mark babies need <b>or</b> are made of different types of cells <b>or</b> cells that have different functions				
		accept different cells are needed for different organs				
		Division or specialisation mark as fertilised egg starts to divide each cell specialises to form a part of the body accept specialised cells make different parts of the body				

Growth mark specialised cells undergo mitosis to grow further cells accept cells divide or reproduce to form identical cells

[8]

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