

**Q1.** There are two types of reproduction, asexual and sexual. Use the words in the box to complete the sentences about reproduction.

You may use each word once or not at all.

asexual eggs gametes fertilisation inheritance ovaries sexual sperms testes variation
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The genetic information from the mother is carried in the .....  
which are made in the .....

The genetic information from the father is carried in the .....  
which are made in the .....

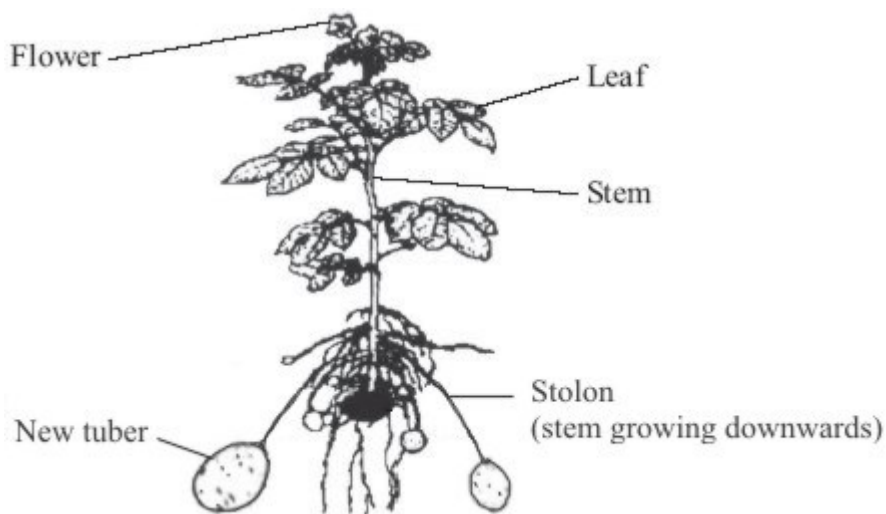
In ..... reproduction, offspring are produced that are genetically  
different from either parent.

This happens because genetic information from each parent is carried in the  
..... and joined together during .....  
to develop into a fetus.

In ..... reproduction, genetically identical offspring are  
produced because no mixing of genetic material takes place.

**(Total 8 marks)**

**Q2.** The drawing shows a potato plant producing new tubers (potatoes). Buds on the stem of the parent plant produce stolons. The new tubers are formed at the ends of the stolons (stems that grow downwards).



(a) Explain why the new tubers are genetically identical to each other.

.....  
.....  
.....  
.....

**(2)**

(b) Some of the tubers are used to produce potato plants. These new potato plants will not all grow to the same height.

Give **one** reason why.

.....  
.....

**(1)**

**(Total 3 marks)**

**M1.** eggs

*accept gamete once*

**1**

ovaries

**1**

sperms

*accept gamete once*

**1**

testes		1
sexual		1
gametes	<i>allow egg <b>and</b> sperm once</i>	1
fertilisation		1
asexual		1

**[8]**

**M2.** (a) grow from parents,  
 by vegetative reproduction/asexual reproduction/  
 no sexual reproduction  
*for 1 mark each*

2

(b) e.g. different environmental conditions/named condition  
*for 1 mark*

1

**[3]**