

Practice test mark scheme Foundation

Q	Expected answers	Marks	Additional guidance												
1	a genes	1													
	b clones	1													
	c some have pink flowers but others have flowers of different colours	1													
		3													
2	a <ul style="list-style-type: none"> production of thick slimy mucus blocks the lungs, making breathing difficult (1) the duct from the pancreas becomes blocked, so that digestive enzymes are not released (1) 	2													
	b i <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th>could be true</th> <th>must be false</th> </tr> </thead> <tbody> <tr> <td>one dominant one recessive.</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>two dominant.</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>two recessive.</td> <td></td> <td style="text-align: center;">✓</td> </tr> </tbody> </table>		could be true	must be false	one dominant one recessive.	✓		two dominant.	✓		two recessive.		✓	1	
		could be true	must be false												
	one dominant one recessive.	✓													
	two dominant.	✓													
two recessive.		✓													
ii She has inherited one recessive allele from her father and one recessive allele from her mother	1														
iii no chance at all	1														
iv (B) E C D A E before C (1); C before D(1); D before A(1)	3														
		8													
3	a unspecialized cells that can develop into any type of cell	1													
	b i Dave.	1													
	ii Chrissy.	1													
		3													
4	a genes (1); recessive (1); dominant (1); carrier (1)	4													
	b <ul style="list-style-type: none"> they may not want to know finding out means deciding to have a termination they may not think a termination is the right thing to do there is a risk that the test may cause a miscarriage they may not be able to afford to have the test 	2	any two points. Allow any valid reason based on safety, ethics or cost												
		6													
Total		20													

Practice test mark scheme Higher

Q	Expected answers	Marks	Additional guidance
1	a genes	1	
	b clones	1	
	c Some be pink but others will be other colours.	1	
		3	
2	a <ul style="list-style-type: none"> production of thick slimy mucus blocks the lungs/breathing becomes difficult (1) the duct from the pancreas becomes blocked/digestive enzymes are not released. (1) 	2	
	b i Alan, Briony & Dan and not Carrie: (2) Any two of Alan, Briony & Dan but not Carrie (1)	2	
	ii First, second and bottom boxes All 3 boxes and no others: (2) Any two correct boxes and no incorrect ones (1)	2	
	iii (B) E C D A E and C (in that order) in first two spaces (1) D and A (in that order) in last two spaces (1)	2	
		8	
3	a unspecialized (cells)	1	
	b i Dave.	1	
	ii Chrissy.	1	
		3	
4	a First and third boxes	1	
	b <ul style="list-style-type: none"> they may not want to know finding out means deciding to have a termination they may not think a termination is the right thing to do there is a risk that the test may cause a miscarriage they may not be able to afford to have the test 	2	any two points Allow any valid reason based on safety, ethics or cost
	c XX	1	
	d <ul style="list-style-type: none"> an insurance company may refuse Tom life insurance (1) A company may not give him a job (1) 	2	
		6	
	Total	20	