OCR GCSE 21ST CENTURY BIOLOGY B · J257

BIOLOGY



MARK SCHEME

B6.2 HOW DO SEXUAL AND ASEXUAL REPRODUCTION AFFECT EVOLUTION? (HIGHER)

SCORE	PERCENTAGE
/7	%

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Question			Answer/Indicative content	Marks	Guidance
1	a		idea that colour / flower will be the same / ORA for seeds; ref. to clone / genetically identical; ORA taking a cutting is a faster process / seeds would take longer to grow into a plant;	3	**Ignore** cost Examiner's Comments ??The majority of higher level candidates obtained one or two marks for this item. The item overlapped with an item on the foundation paper. Most correctly stated that the cuttings were clones or genetically identical copies of the parent/stock plant and referred to the colour of the flowers produced by the products i.e. purple. The speed of the process was generally not considered by many of the candidates. A common error appeared when candidates stated that the cuttings were clones but then repeated this feature by noting that the products generated by seeds were, effectively, not clones. This type of response could not obtain two marks for this feature. Some candidates erroneously introduced the idea of cost and said that taking cuttings is cheaper.
			Total	**3**	
2			Only female individuals are produced. ☐ The individuals produced are clones. ✓ Mutation is always involved. ☐ The individuals are produced from a sperm and an egg. ☐ The majority of individuals produced are infertile. ☐ The individuals produced have identical genes. ✓ Two parents are always involved. ☐	2	minus 1 mark for each additional incorrect response Examiner's Comments Most candidates scored both marks on this question, with the majority of the remainder scoring at least one mark. Itproved to be an accessible start to the paper whilst at the same time differentiating between the weakest and more able candidates.
			Total	**2**	
3			Advantage: (can be) fast / no need to find a mate ✓ Disadvantage: lack of genetic diversity / are all genetically identical ✓	2	MP2 **ALLOW** are clones **DO NOT ALLOW** are all identical
			Total	**2**	

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