OCR GCSE 21ST CENTURY BIOLOGY B · J257

BIOLOGY



MARK SCHEME

B4.5 SHOULD WE USE STEM CELLS TO TREAT DAMAGE AND DISEASE? (FOUNDATION)

SCORE	PERCENTAGE
/6	%

STEMUP

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Question			Answer/Indicative content	Marks	Guidance
1	a		F	1	Examiner's Comments This question presented candidates with statements about the possible future use of stem cells to treat intestinal problems in premature babies. Candidates as a whole found this question difficult. Parts a-c proved most difficult; candidates performed slightly better on part (d) with over half of candidates identifying the correct statement.
	b		B	1	Examiner's Comments This question presented candidates with statements about the possible future use of stem cells to treat intestinal problems in premature babies. Candidates as a whole found this question difficult. Parts a-c proved most difficult; candidates performed slightly better on part (d) with over half of candidates identifying the correct statement.
	c		C	1	Examiner's Comments This question presented candidates with statements about the possible future use of stem cells to treat intestinal problems in premature babies. Candidates as a whole found this question difficult. Parts a-c proved most difficult; candidates performed slightly better on part (d) with over half of candidates identifying the correct statement.
	d		A	1	Examiner's Comments This question presented candidates with statements about the possible future use of stem cells to treat intestinal problems in premature babies. Candidates as a whole found this question difficult. Parts a-c proved most difficult; candidates performed slightly better on part (d) with over half of candidates identifying the correct statement.
			Total	4	

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Question			Answer/Indicative content	Marks	Guidance
2			*any two from:* playing God / against religious beliefs / it's not right / it's wrong (1) the embryo is destroyed / killed (1) the patient will be carrying genes / DNA from another person (1) surgery required but transplanted tissue may not function (1) tissue may be rejected (1) embryos could (be implanted in a uterus and) grow into a fetus / baby / new life (1) doctors will choose the patients for treatment (1)	2	**accept** any other realistic ethical issue **ignore** ref to cruelty embryo destroyed and not become a baby = 2 marks **Examiner's Comments** For this question candidates were asked to discuss 2 ethical issues. Just under half of the candidates were able to discuss one ethical issue.
			Total	**2**	

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