

Question Number	Answer	Additional guidance	Mark
6(a)	1. reference to stem cells being {totipotent / pluripotent} ; 2. can specialise or differentiate / can give rise to {differentiated / specialised} cells ; 3. idea that these can replace damaged cells (in spinal cord of Dachshund) / new nervous tissue can be formed / eq ; 4. capable of continuous division / no Hayflick limit ;	1. IGNORE unspecialised 2. IGNORE stem cells 'turn into' or 'become' 3. ACCEPT new nerve cells	(2)

Question Number	Answer	Additional guidance	Mark
6(b)	1. cells genetically identical / same genotype / eq ; 2. no rejection / avoids immune response / eq ; 3. idea of no disease transmission ;	IGNORE tumours, cancer 1. ACCEPT reference to same tissue type or same antigens – NOT the same DNA 2. NOT reduced risk of rejection ACCEPT idea of no need for immunosuppressant drugs 3. ACCEPT – reduced risk of infection	(2)

Question Number	Answer	Additional guidance	Mark
6(c) (i)	1. reference to placebo OR idea of being used as a control ; 2. to compare with stem cell treatment / eq ;	1. IGNORE placebo effect	(2)

Question Number	Answer	Additional guidance	Mark
6(c) (ii)	1. to remove bias / eq 2. idea of making it a double blind trial ;		(1)

Question Number	Answer	Mark
7(a) (i)	C short brown fibre	(1)