Question		on	Expected Answers	Marks
4	(a)		DNA	
			mutation ; altered protein synthesis ; problem with, DNA replication / cell division ;	
			ref. cancer ;	
			proteins	
			denatured ; altered, 3D / tertiary / quaternary, shape ; ref. active site / specificity ;	
			ref. protein function or named protein ; (e.g. enzyme / receptor / hormone) (max 3 either section)	4 max
	(b)	(i)	not supported ; mole rat has, low reduced:oxidized ratio / low % reduced ; ora for mouse (mole rat) high / more, free radicals / damage ; ora for mouse	3
		(ii)	 D mice and mole rats different ages ; E mole rats had more time to, metabolise / experience free radical damage ; 	
			D mole rats usually live, underground / in low O_2 conditions ; E exposed to abnormally high O_2 in lab ;	
			D organisms not perfectly matched for, size / hair cover ; E mole rats have lower BMR ;	
			E not, comparable / fair test; A once with any stated difference	4 max
	(c)		curve drawn to the left of mouse ;	1
				tal: 12