Question Number	Answer	Mark
8 (a)	1. appearance / the outward expression (of a cell or organism) / eq ; 2. reference to {genotype / eq} contribution ; 3. reference to environmental factors ;	**max (2)**

Question Number	Answer	Mark
8 (b)(i)	1. non smokers / eq ; 2. idea that it acts as a comparison / shows the situation without smoking ;	**(2)**

Question Number	Answer	Mark
8 (b)(ii)	lung cancer / no lung cancer ;	**(1)**

Question Number	Answer	Mark
8 (b)(iii)	1. the more (packs) smoked, the higher the chance of developing lung cancer / positive correlation / eq ; 2. small increase in risk if smoke up to 20 packs per year / eq ; 3. greater increase in risk if smoke 21 or more (packs) per year / eq ; 4. linear increase for 21 or more / eq ; 5. credit correct manipulation of the data e.g. 35X greater;	**(2)**

Question Number	Answer	Mark
8 (b)(iv)	1. idea that increased chance of lung cancer if close relative has cancer 2. for those that do not smoke there is risk if cancer in family / eq ; 3. that close family members will have more alleles in common (with those involved in the investigation) ;	**max (2)**

Question Number	Answer	Mark
8 (b)(v)	in the 1-20 (packs) smoked per year cohort, there was a {lower risk of getting lung cancer if a close relative has had cancer / higher risk if no close relative with cancer} / eq ;	**(1)**

Question Number	Answer	Mark
8 (b)(vi)	idea that the more (packs) smoked per year, the greater the risk of getting lung cancer ;	**(1)**